LPCB Red Book

1

Part: 1

Fire detection and alarm products, systems & cables

bre

Last updated: 30 Apr 2025

Introduction

BRE Global Ltd, based in the UK near London, is an independent third party organisation offering certification of fire, security and sustainability products and services to an international market. LPCB is the certification brand used for fire and security products and services. The LPCB mark is accepted worldwide. We have representative offices in China, India and Dubai. We are owned by the BRE Trust, a not-for-profit organisation.

LPCB listings can be accessed, free of charge, at www.redbooklive.com. BRE Global additionally carries out:

- Fire Investigation
- Fire Risk Assessment
- Fire Safety Engineering
- Research
- Training

LPCB Listings

Listings are given in sections which list related groups of products and services such as suppression, security and so on. Each section also summarises the technical basis for the certification of each product or service. The Red Book listings should always be used in conjunction with rules, regulations and design specifications required by the relevant Authority having jurisdiction.

Listings comprise:

- Fire detection and alarm products, systems, and cables
- Manual fire extinguishing equipment
- Automatic sprinkler, water spray and deluge systems
- Fixed fire fighting products and systems
- Watermist systems
- Related installers
- Passive fire protection products
- Security protection products
- Fire doors and shutters
- Smoke and fire ventilation systems
- SABRE
- Management Systems
- Construction products

Listings are given in the name of the manufacturer or service provider, in alphabetical order. They can be downloaded free of charge from our website at www.redbooklive.com

Updates

Certification of products and services are updated regularly. To ensure that you are using the most up to date information please refer to www.redbooklive.com.

What is Third Party Certification?

A frequent concern of stakeholders is in knowing whether a product will perform in accordance with the stated specifications. These concerns can involve such product attributes as safety, health or environmental impacts, durability, compatibility, suitability for intended purposes or for stated conditions, and other similar considerations. These issues can all be addressed through product certification.

Third party certification is a conformity assessment process, carried out by a body that is independent of both supplier and customer organisations. It provides confirmation that products and services have met and will continue to meet the requirements of specified standards and other normative documents.

FOR SPECIFIERS AND REGULATORS:

LPCB third party product certification schemes are quality assurance schemes and comprise initial type testing and technical evaluation, assessment and surveillance of the manufacturer's quality system and factory production procedures, regular audit testing, labelling and listing.

Similarly, LPCB schemes for suppliers of services (installers) are also quality assurance schemes comprising a technical assessment of an installer's capability, assessment and surveillance of the installer's quality system and production procedures, regular inspection of completed installations and listing.

Benefits of Third Party Certification

For specifiers, regulators, insurers, manufacturers and installers, the benefits of an LPCB approval are:

For specifiers and regulators:

- Risk reduction - specifying LPCB approved products and services demonstrates due-diligence and best endeavour and mitigates against possible accusations of negligence.
- Avoidance of costly mistakes - you can trust LPCB approved products and services to conform each and every time.
- Time - using Red Book Live to search for and assess products and services can save you time.

For manufacturers and installers:

- Increased global sales - LPCB approval is recognised and specified widely throughout the world. In some territories LPCB approval is a mandatory requirement.
- Added value of the product or service - LPCB approved products and services are recognised as providing added value given their ability to conform each and every time.
- Reduced liability - LPCB approved products and services demonstrate due-diligence which can reduce liability for both you and your customers.

What does LPCB Certification offer?

LPCB certification is carried out against Loss Prevention Standards (LPS's). These LPS's include reference to BS, EN or ISO standards as appropriate. LPCB certification are level 5 schemes as detailed in ISO/ IEC 17067 with the added requirement to have a quality system certificated to ISO 9001.

The technical requirements of LPCB schemes are given in the Loss Prevention Standards (LPSs). These documents are drafted by LPCB technical experts in conjunction with appropriate external experts. They are then peer reviewed by representatives from trade bodies, regulators, insurers, specifiers, manufacturers and other suppliers. Finally these documents are approved for use by the BRE Global Governing Body; the Body that oversees all of the certification activities of BRE Global.

Product schemes comprise:

- Initial type testing and evaluation of product.
- Approval and surveillance of the manufacturer's (or supplier's) quality management system to ISO 9001
- Assessment and surveillance of the manufacturer's (or supplier) factory production control system (FPC).
- Periodic audit testing of the product from either the factory or marketplace.
- Labelling or marking as appropriate.
- Listing on Red Book Live

Installer schemes comprise:

- Technical assessment of the installation contractor's capability.
- Approval and surveillance of the contractor's quality management system to ISO 9001 or assessment against the requirements of the relevant Loss Prevention Standard where ISO 9001

is not appropriate.
- Regular surveillance inspections of on-going installations.
- The issue of Certificates of Conformity by the installer to demonstrate compliance for each installation.
- Listing in the Red Book.

The LPCB Mark - the Mark you can trust

After certification of a product or service the manufacturer or service provider may place the LPCB certification mark, as shown below, on the product, packaging and literature etc.

Where LPCB holds accreditation through the United Kingdom Accreditation Service (UKAS), the certified company may include the UKAS symbol (the Crown and Tick) alongside the LPCB mark for certain applications e.g. promotional literature or material and stationery, as shown below.

(Full details of LPCB accreditation can be found on the UKAS website at www.ukas.com)
Where for reasons of space or cost the use of the above full mark is not practical, then the following simplified mark may be applied directly to the product (for some schemes only). The LPCB scheme rules define how and where the marks can be used.

Part 1

Fire detection and alarm products, systems & cables

FIRE DETECTION AND ALARM PRODUCTS, SYSTEMS & CABLES

INTRODUCTION

A working fire detection and alarm system will increase the level of safety in a building by automatically warning occupants of fire before they would otherwise detect it.

To ensure the system works, the system must be designed correctly, products must be correctly selected and the systems must be correctly installed and maintained. It is recommended that all systems are designed, installed, commissioned and maintained by contractors who are approved by LPCB to LPS 1014 and that they are connected to Alarm Receiving Centres approved to LPS 1020.

Listings in this section include:

Products

· Control and indicating equipment including voice alarm and power supplies

· Wireless, flame, beam, aspirating, smoke, heat and multi-sensor detectors

· Manual call points

· Line units including input and output devices

· Alarm warning devices including visual alarms, loudspeakers and sounders

· Cables

· Alarm transmission equipment

· Signalling systems

Products are approved in accordance with a range of standards. The details of these standards are given at the front of each section relevant to the product. Some of the above products may be hard wired or wireless (Radio link). Wireless products should also be approved to EN 54-25.

Systems

Fire detection and alarm systems are approved for system compatibility in accordance with:

· *LPS 1054: Requirements and testing procedures for the approval and listing of component compatibility for fire detection and alarm systems.*

· *EN 54-13: Compatibility assessment for system components.*

Design, installation, commissioning and maintenance contractors

Contractors are approved in accordance with:

· *LPS 1014: Requirements for certificated fire detection and alarm system firms.*

· *LPS 1020: Alarm Receiving Centres*

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ALARM WARNING DEVICES

The purpose of a fire alarm warning device is to warn person(s) within, or in the vicinity of, a building of the occurrence of a fire emergency situation in order to enable such person(s) to take appropriate measures. Fire alarm warning devices could be sounders, visual alarm e.g. beacons, or even loudspeakers. These devices can be of different construction and may have different parameters for example sounders are defined in terms of frequency ranges, temporal patterns and output levels, beacons are defined in terms of light temporal pattern and frequency of flashing.

Guidance on the type, frequency, temporal pattern, and output levels should be sought from the applicable installation rule or code of practice - for example BS 5839-1 recommends sounders with continuous output and frequency range between 500 Hz to 1000 Hz.

Fire alarm devices may be used for other type of risk or non-fire emergency alarm. In this case it is always recommended that a different message, colour, temporal pattern, or frequency signal from the fire signal is selected to avoid confusion.

This section lists alarm device approved for use indoors and outdoors in fire detection and fire alarm systems.

Products listed in this section have been approved to:

- EN 54-3 *Sounders*
- EN 54-23 *Visual alarms*
- EN 54-24 *Loudspeakers*
- EN 54-25 *Components using radio links*

The initial approval and continued approval processes for audible, visual and loudspeaker warning devices are outlined in scheme documents SD115, SD113, and SD039.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

5063 Commercial Circle, Concord, CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426h-(cl-5) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-HS	Intelligent Red Sounder with Visual Indicator (PYR-FA-CHA-CB Base) (Branded as Pyronics)	1426h/01
	Notes:	
	Meets the requirements of EN 54-3 at the following tone:	
	Sweep tone 667Hz-2kHz @0.21Hz	

Base:

PYR-FA-CHA-CB

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne, NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928ah-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
Axis-CWS + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with Axis-WSM	928ah/01
Axis-CWS/WH + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with Axis-WSM	928ah/01

Ancillaries:
Axis-WSM Addressable Module with Short Circuit Isolator

Certificate No: 928w-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AXIS-SMB	Axis Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	928w/05
AXIS-SVMB	Axis Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF	928w/06

	Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	
Axis-CWS	Conventional Type A/B (indoor/outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
Axis-CWS/WH	Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500m	928w/07

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Certificate No: 928y-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
Axis-CWSV	Conventional Type A /B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01
Axis-CWSV/WH	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01

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Certificate No: 928z-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
Axis-CWSV + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with Axis-WSM	928z/01
Axis-CWSV/WH + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with Axis-WSM	928z/01

Ancillaries

Axis-WSM Addressable Module with Short Circuit Isolator

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928ah-(cl-7) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AV415AL+CWS100	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body)	928ah/01

	Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with AV415AL

Ancillaries
AV415AL Addressable module with short circuit isolator

Certificate No: 928w-(cl-8) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AV412AS	Altair Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	928w/05
AV413AS	Altair Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	928w/06

Certificate No: 928z-(cl-8) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
AV415AL+CWS100AV	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following:	928z/01

- Category W-2.5-7
- Flash rate 0.5Hz
- Synchronization

3. Device is only addressable when used in conjunction with AV415AL

Ancillaries
AV415AL Addressable module with short circuit isolator

AGNI Devices PVT Ltd

B-21, DDA Keshopur Industrial Area, Vikas Puri, New Delhi, 110018, India
Tel: +91 11 28335624
E-mail: info@agnidevices.com

Certificate No: 1330d-(cl-7) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FL-433/WMSS	Addressable Sounder Strobe (FL-433/SSB Base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz – 2900 Hz @ 3Hz - Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off - Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/01
FL-433/BSS	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz – 2900 Hz @ 3Hz - Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off - Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

Bases
FL-433/SSB

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174c-(cl-5) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SC-6734	Conventional Type A Sounder Strobe (SB-6711 Base) (branded as SECURE) Notes:	1174c/01

	1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	
SI-6737	Addressable Type A Indoor Digital Sounder Beacon (SB-6619 Base) (branded as SECURE) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval	1174c/02

Base

SB-6711 Base

SB-6619 Mounting Base

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506e-(cl-10) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
OM-0218	Conventional Fire Alarm Bell	506e/01
OM-03127-BS	Conventional Type B Electronic Sounder Beacon Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz 2 - Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Ambest Electronics (Ningbo) Co Ltd T/A Numens

55 Yunhui Road, Yingzhou District, Ningbo, Zhejiang, 315137, China
Tel: +86 574 82817218
E-mail: allen.cheng@numens.com

Certificate No: 1529b to EN54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
447-005	Intelligent Type A Sounder/Beacon Device Notes: 1. Meets the requirements of EN 54-3 at the following tones: (i). Alternating 800/970 Hz, 500ms each tone 2. Operating Voltage 21~30V DC	1529b/01

	3. The beacon functionality is not included within the scope of this approval	
641-005	Intelligent Type A Sounder/Beacon Device	1529b/01
	Notes:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	(i). Alternating 800/970 Hz, 500ms each tone	
	2. Operating Voltage 21~30V DC	
	3. The beacon functionality is not included within the scope of this approval	

Base:

Integrated mounting back box with latch

Ampac Pty Ltd

7 Ledgar Road, Balcatta, 6021, Australia
Tel: +618 (9242) 3333
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010ak-(cl-3) to EN 54-3:2014 +A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
55000-001AMP	XP95 Type B Intelligent Open Area Sounder (Red)	010ak/01
	(45681-518AMP enhanced deep isolating bases)	
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	Apollo standard-840Hz,0.5s/558Hz,0.5s	
	Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off	
	German DIN-1200-500Hz over 1s	
58000-005AMP	Discovery Type B Intelligent Open Area Sounder Beacon (Red)	010ak/05
	(45681-518AMP enhanced deep isolating bases)	
	Notes:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s	
	T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off	
	T4- German DIN1200-500Hz over 1s	
	2. The Beacon function is not approved to EN 54-23	

Bases:

45681-517AMP Enhanced deep isolating base (White)

45681-518AMP Enhanced deep isolating base (Red)

Certificate No: 010ax-(cl-2) to EN 54-3: 2014 + A1: 2019, EN 54-17: 2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
45681-702AMP	Discovery Sounder Base (White) with Isolator (45681-292 and 45681-293 Caps)	010ax/01
	Notes:	
	1. Meets the requirements of EN 54-3 at the following tone settings:	

Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s

Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s,

626Hz for 0.25s

Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz

Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, 0.5s off

Tone 4 DIN Toe (sweep) - 1200Hz - 500Hz for 1s

Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off

Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz

Tone 11 Continuous (Hochiki & Fulleon) - 925Hz

Tone 13 Continuous - 970Hz

Tone 2 Continuous - 850Hz

Tone 17 Swedish all clear signal – Continuous — 660Hz

2. Type A and approved for sounder volumes 2-7 only.

Accessories:
45681-292 White Cap (Lockable)
45681-293 Red Cap (Lockable)

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412
E-mail: enquiries@apollo-fire.co.uk

Certificate No: 010ak to EN 54-3:2014 +A1:2019

Sounders

Product Name	Description	LPCB Ref. No
55000-001	Intelligent Sounder Open-Area (Red) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/01
55000-002	Intelligent Sounder Open-Area (White) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* 1. Meets the requirements of EN 54-3 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/02
55000-005	Intelligent Sounder Visual Indicator Open-Area (Red) (45681-517 and 45681-518 enhanced deep isolating bases)	010ak/03

	Note: 1. Meets the requirements of EN 54-3 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	
55000-006	Intelligent Sounder Visual Indicator Open-Area (White) (45681-517 and 45681-518 enhanced deep isolating bases) **Note:** 1. Meets the requirements of EN 54-3 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/04
58000-005	Discovery Type B intelligent open area sounder beacon (Red) (45681-517 and 45681-518 enhanced deep isolating bases) **Note:** 1. Meets the requirements of EN 54-3 at the following tones: T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off T4- German DIN1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/05
58000-007	Discovery Type B intelligent open area sounder beacon (White) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* 1. Meets the requirements of EN 54-3:2001 at the following tones: T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off T4- German DIN1200-500Hz over 1s	010ak/06
55000-017	AlarmSense Open-Area Sounder Visual Indicator (45681-523 Base) Note: 1. Meets the requirements of EN 54-3 at the following tone: Evacuate tone - 840 Hz for 0.5sec, 558 Hz for 0.5sec	010ak/07
55000-018	AlarmSense Open-Area Sounder (45681-523 Base) Note: 1. Meets the requirements of EN 54-3 at the following tone: Evacuate tone - 840 Hz for 0.5sec, 558 Hz for 0.5sec	010ak/08

Bases:

45681-517 Enhanced deep isolating base (White)

45681-518 Enhanced deep isolating base (Red)

45681-523 AlarmSense Open Area Base

SA5000-200 XPERT8 (White) Intelligent Base

SA5000-202 XPERT8 (Red) Intelligent Base

45681-210 Intelligent Mounting Base

Certificate No: 010aw to EN 54-3:2014 +A1:2019, EN 54-17:2005, EN 54-23:2010

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
45681-700	Discovery Sounder Visual Alarm Device Base (White) with Isolator (45681-292 and 45681-293 Caps) **Notes:** 1. The VAD is rated as open class: (Refer to installation guide). 2. The VAD operating voltage range 17-28V DC (24V nominal). 3. The VAD Light mode (light pattern details): 0.5Hz mode only. 4. The VAD includes a short circuit isolator. 5. The VAD is a Type A device and includes synchronisation 6. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, off for 0.5s Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz Tone 17 Swedish all clear signal - Continuous - 660Hz 7. Approved for sounder volumes 2-7 only **Accessories:** 45681-292 White Cap (Lockable) 45681-293 Red Cap (Lockable)	010aw/01
45681-705	XP95 Sounder Visual Alarm Device Base (white) with Isolator (45681-292 and 45681-293 Caps) **Notes:** 1. The VAD is rated as open class: (Refer to installation guide). 2. The VAD operating voltage range 17-28V DC (24V nominal). 3. The VAD Light mode (light pattern details): 0.5Hz mode only. 4. The VAD includes a short circuit isolator.	010aw/03

5. The VAD is a Type A device and includes synchronisation.

6. Meets the requirements of EN 54-3 at the following tone settings:

Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz off for 0.5s

Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz

7. Approved for sounder volumes 2-7 only.

Accessories:

45681-292 White Cap (Lockable)

45681-293 Red Cap (Lockable)

45681-707 XP95 Sounder Visual Alarm Device Base (white) DIN with Isolator 010aw/05

(45681-292 and 45681-293 Caps)

Notes:

1. The VAD is rated as open class: (Refer to installation guide).

2. The VAD operating voltage range 17-28V DC (24V nominal).

3. The VAD Light mode (light pattern details): 0.5Hz mode only.

4. The VAD includes a short circuit isolator function

5. The VAD is a Type A device and includes synchronisation.

6. Meets the requirements of EN 54-3 at the following tone settings:

Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s

Tone 2 Continuous - 850Hz

7. Approved for sounder volumes 2-7 only.

Accessories:

45681-292 White Cap (Lockable)

45681-293 Red Cap (Lockable)

SA5500-550 Intelligent Open Area Sounder VAD (White Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) 010aw/06

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec

Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s

Tone 11 Continuous (Hochiki & Fulleon) 925Hz

Tone 13 Continuous 970Hz

Tone 2 Continuous 825Hz

Tone 17 Swedish All Clear Continuous 660Hz

2. Type A

3. The Wall mounted VAD meets the requirements of EN 54-23 for the following:

- Category rating W-3.1-10
- Synchronization
- Flash rate 0.5Hz
- White LED

- Clear lens

SA5501-550	Intelligent Open Area Sounder VAD (White Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210)	010aw/07

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec

Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s

Tone 11 Continuous (Hochiki & Fulleon) 925Hz

Tone 13 Continuous 970Hz

Tone 2 Continuous 825Hz

Tone 17 Swedish All Clear Continuous 660Hz

2. Type A

3. The Wall mounted VAD meets the requirements of EN 54-23 for the following:

- Category rating W-3.1-10
- Synchronization
- Flash rate 0.5Hz
- White LED
- Clear lens

SA5500-551	Intelligent Open Area Sounder VAD (Red Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210)	010aw/08

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec

Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s

Tone 11 Continuous (Hochiki & Fulleon) 925Hz

Tone 13 Continuous 970Hz

Tone 2 Continuous 825Hz

Tone 17 Swedish All Clear Continuous 660Hz

2. Type A

3. The Wall mounted VAD meets the requirements of EN 54-23 for the following:

- Category rating W-3.1-9
- Synchronization
- Flash rate 0.5Hz
- White LED
- Red lens

SA5501-551	Intelligent Open Area Sounder VAD (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3 for the following tones: Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) 925Hz Tone 13 Continuous 970Hz Tone 2 Continuous 825Hz Tone 17 Swedish All Clear Continuous 660Hz 2. Type A 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.1-9 - Synchronization - Flash rate 0.5Hz - White LED - Red lens	010aw/09

Accessories

SA5000-200 XPERT8 (White) Intelligent Mounting Base

SA5000-202 XPERT8 (Red) Intelligent Mounting Base

45681-210 Intelligent Mounting Base

Certificate No: 010ax to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
45681-702	Discovery Sounder Base (White) with Isolator (45681-292 and 45681-293 Caps) **Note:** 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s/0Hz, 0.5s off Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz	010ax/01

Tone 17 Swedish all clear signal - Continuous - 660Hz

2. Type A and approved for sounder volumes 2-7 only.

Accessories:

45681-292 White Cap (Lockable)

45681-293 Red Cap (Lockable)

SA5500-300 — Intelligent Open Area Sounder (Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) — 010ax/02

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec

Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s

Tone 11 - Continuous (Hochiki & Fulleon) 925Hz

Tone 13 - Continuous 970Hz

Tone 2 - Continuous 825Hz

Tone 17 - Swedish All Clear Continuous 660Hz

2. Type A

SA5501-300 — Intelligent Open Area Sounder (White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) — 010ax/03

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec

Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s

Tone 11 - Continuous (Hochiki & Fulleon) 925Hz

Tone 13 - Continuous 970Hz

Tone 2 - Continuous 825Hz

Tone 17 - Swedish All Clear Continuous 660Hz

2. Type A

SA5500-350 — Intelligent Open Area Sounder Visual Indicator (White Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) — 010ax/04

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec

Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s

Tone 11 - Continuous (Hochiki & Fulleon) 925Hz

Tone 13 - Continuous 970Hz

Tone 2 - Continuous 825Hz

Tone 17 - Swedish All Clear Continuous 660Hz

2. Type A

SA5501-350 — Intelligent Open Area Sounder Visual Indicator (White Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) — 010ax/05

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec

Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s

Tone 11 - Continuous (Hochiki & Fulleon) 925Hz

Tone 13 - Continuous 970Hz

Tone 2 - Continuous 825Hz

Tone 17 - Swedish All Clear Continuous 660Hz

2. Type A

SA5500-351 — Intelligent Open Area Sounder Visual Indicator (Red Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) — 010ax/06

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec

Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec

Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz

Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off

Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec

Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off

Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s

Tone 11 - Continuous (Hochiki & Fulleon) 925Hz

Tone 13 - Continuous 970Hz

Tone 2 - Continuous 825Hz

Tone 17 - Swedish All Clear Continuous 660Hz

2. Type A

SA5501-351	Intelligent Open Area Sounder Visual Indicator (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/07

Bases:

SA5000-200 XPERT8 (White) Intelligent Base

SA5000-202 XPERT8 (Red) Intelligent Base

45681-210 Intelligent Mounting Base

Certificate No: 010ay to EN 54-17: 2005 and EN 54-23: 2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
45681-709	XP95 Visual Alarm Device Base (White) with Isolator **Notes:** 1. The VAD is rated as open class: (Refer to installation guide). 2. The VAD operating voltage range 17-28V DC (24V nominal). 3. The VAD Light mode (light pattern details): 0.5Hz mode only. 4. The VAD includes a short circuit isolator. 5. The VAD is a Type A device and includes synchronisation. **Accessories:** 45681-292 White Cap (Lockable) 45681-293 Red Cap (Lockable)	010ay/01
SA5501-500	Intelligent Open Area VAD (White Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.1-10 - Synchronization - Flash rate 0.5Hz - White LED	010ay/02

	- Clear lens - Type A	
SA5501-501	Intelligent Open Area VAD (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.1-9 - Synchronization - Flash rate 0.5Hz - White LED - Red lens - Type A	010ay/03

Bases:

45681-210 XP95/Discovery mounting base

45681-284 XP95/Discovery short circuit isolating base

45681-518 Enhanced Deep Isolating Base (Red)

SA5000-200 XPERT8 (White) Intelligent Mounting Base

SA5000-202 XPERT8 (Red) Intelligent Mounting Base

45681-277 XP95 Sounder Base - Isolating

45681-290 Discovery Sounder Base - Slow Whoop - Isolating

45681-276 XP95 Sounder Base - Ancillary

45681-702 Discovery Sounder Base - Isolating

45681-300 Discovery Sounder Base - DIN Tone - Isolating

45681-278 XP95 Sounder Base

45681-291 Discovery Sounder Base - Slow Whoop

Certificate No: 010ba to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
55000-740	Loop-Powered Type A VAD 15m (Red) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-15 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/01
55000-741	Loop-Powered Type A VAD 6m (Red) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.4-6	010ba/02

	- Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	
55000-742	Loop-Powered Type A VAD 8m (Red) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/03
55000-743	Loop-Powered Type A VAD 15m (White) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-15 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/04
55000-744	Loop-Powered Type A VAD 6m (White) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.4-6 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/05
55000-745	Loop-Powered Type A VAD 8 (White) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/06
55000-738	Loop-Powered Type A VAD (Red)	010ba/11

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category rating C-3-8
- Synchronisation
- Flash rate 0.5Hz
- Red LED
- Clear lens

2. Approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases

55000-739	Loop-Powered Type A VAD (White)	010ba/12

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category rating C-3-8
- Synchronisation
- Flash rate 0.5Hz
- Red LED
- Clear lens

2. Approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases

55000-736	XP95 Open-Area VAD Cat. W - Red Body (Red Flash)	010ba/13

Notes:

1. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category rating C-2.4-6
- Synchronisation
- Flash rate 0.5Hz
- Red LED
- Clear lens

2. Also approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases

55000-737	XP95 Open-Area VAD Cat. W - White Body (Red Flash)	010ba/14

Notes:

1. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category rating C-2.4-6
- Synchronisation
- Flash rate 0.5Hz
- Red LED
- Clear lens

2. Also approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases

Bases:

45681-210 XP95/Discovery mounting base

45681-284 XP95/Discovery short circuit isolating base

45681-518 Enhanced Deep Isolating Base (Red)

SA5000-200 XPERT8 (White) Intelligent Mounting Base

SA5000-202 XPERT8 (Red) Intelligent Mounting Base

45681-277 XP95 Sounder Base - Isolating

45681-290 Discovery Sounder Base - Slow Whoop - Isolating

45681-276 XP95 Sounder Base - Ancillary

45681-702 Discovery Sounder Base - Isolating

45681-300 Discovery Sounder Base - DIN Tone - Isolating

45681-278 XP95 Sounder Base

45681-291 Discovery Sounder Base - Slow Whoop

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Certificate No: 928ah to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS100 + ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ALWS-MOD	928ah/01
CWS100 (W)+ ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ALWS-MOD	928ah/01

Ancillaries
ALWS-MOD Addressable module with short circuit isolator

Certificate No: 928w to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ALBLS100-32	Altair Addressable Type A Sounder Base	928w/05

	Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100 - AL/W or AL/R)	
ALBLS100-32/AV	Altair Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100 - AL/W or AL/R)	928w/06
CWS100	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
CWS100(W)	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07

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Certificate No: 928x to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
CBE1002	Conventional Type A Beacon (1 Flash Every 2 Seconds) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-7.5 - Synchronization	928x/02

- Flash rate 0.5 Hz

- White LED

- Clear lens

2. Approved with LAB1000 base

Bases:

LAB1000 Base Adaptor

Certificate No: 928y to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS100-AV	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01
CWS100-AV (W)	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01

ALWS-MOD Addressable module with short circuit isolator

Certificate No: 928z to EN 54-3:2014 + A1:2019, EN 54-23:2010, EN 54-17:2005, EN 54-18:2005

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS100-AV + ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms	928z/01

	Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD	
CWS100-AV (W) + ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD	928z/01

Ancillaries
ALWS-MOD Addressable module with short circuit isolator

Armor Safety & Security Ltd

120 Baker Street, London, W1U 6TU, United Kingdom
Tel: +971506531199
Website: www.armorsafety.org

Certificate No: 928ah-(cl-6) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARM-CWS + ARM-WSM	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ARM-WSM	928ah/01

Ancillaries
ARM-WSM Addressable module with short circuit isolator

Certificate No: 928w-(cl-6) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARM-CWS	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07

Certificate No: 928x-(cl-3) to EN 54-23:2010

Product Name	Description	LPCB Ref. No
ARM-CBE1002	Conventional Type A Beacon (1 Flash Every 2 Seconds) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-7.5 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with AXIS-MB base	928x/02

AXIS-MB Base Adaptor

Certificate No: 928y-(cl-6) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARM-CWSV	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01

Certificate No: 928z-(cl-7) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARM-CWSV + ARM-WSM	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with	928z/01

Short Circuit Isolator (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:

Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms

Tone 2 Continuous Tone, 970Hz

Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms

Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)

2. The wall mounted VAD meets the requirements of EN 54-23 for the following:

- Category W-2.5-7

- Flash rate 0.5Hz

- Synchronization

3. Device is only addressable when used in conjunction with ARM-WSM

Ancillaries
ARM-WSM Addressable module with short circuit isolator

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire, NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426a-(cl-2) to EN 54-3 :2014 + A1: 2019, EN 54-23: 2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AW-D316	Conventional Sounder Beacon Notes: 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/01
AW-D306	Addressable Sounder Beacon (DZ-9091 Base) Notes: 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone:	1426a/02

- Tone 1: 667Hz - 2000Hz@0.22Hz

Base

DZ-9091K

DZ-9091

Standard Mounting Bracket

Certificate No: 1426h-(cl-4) to EN 54-3 :2014 + A1: 2019,

Product Name	Description	LPCB Ref. No
AW-D307	Intelligent Red Sounder with Visual Indicator (DZ-9091K Base)	1426h/01
	Notes:	
	Meets the requirements of EN 54-3 at the following tone:	
	Sweep tone 667Hz-2kHz @0.21Hz	

Base

DZ-9091K

Certificate No: 1426j-(cl-4) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AW-D321	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket)	1426j/01
	Notes:	
	Meets the requirements of EN 54-3: 2014 at the following tones	
	Sweep Tone 667Hz 2KHz@0.21Hz	

Accessories

Standard Mounting Bracket

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna, 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571f to EN 54-3:2014 + A1:2019 & EN 54-25:2008

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARF-WL8-SND	Wireless Type A Indoor Sounder	1571f/01
	Notes:	
	1. Meets the requirements of EN 54-3 for the following tones:	
	- Pulse tone, 990Hz (500ms On / 500ms Off)	
	- Dual tone, 990Hz & 650Hz (250ms ~ 250ms)	
	- Continuous tone, 990Hz	
	- Pulsed tone (synchronized), 990Hz (1s On / 1s Off)	
	2. The device must be used with the following batteries only:	
	- Primary CR123A (3V)	
	- Secondary CR123A (3V)	

EK-WL8-SND	(EKHO Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01
KM-WL8-SND	(K-Mesh Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01

Certificate No: 1571g to EN 54-3:2014 + A1:2019, EN 54-7:2018 & EN 54-25:2008

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARF-WL8-OS	Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571g/01

EK-WL8-OS	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571g/01
KM-WL8-OS	(K-Mesh Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571g/01

Certificate No: 1571h to EN 54-3:2014 + A1:2019, EN 54-5:2017 + A1:2018 & EN 54-25:2008

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARF-WL8-HS	Wireless Category A1R Heat Detector with Type A Built-in Sounder	1571h/01

Notes:

1. Meets the requirements of EN 54-3 for the following tones:
   - One tone Steady, 3500Hz (On)
   - One tone Meander, 3500Hz (1s On / 1s Off)
   - One tone Meander, 3500Hz (2s On / 2s Off)
   - Two tone, 3500Hz & 2150Hz (1s / 1s)
   - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s)
   - One tone intermittent, 3500Hz (0.2s On / 1.3s Off)
   - ISO8201, 3500Hz (3*0.5s / 1.5s Off)
   - One tone continuous, 1000Hz (Continuous tone)
   - One-tone intermittent, 1000Hz (1s On / 1s Off)

2. The device must be used with the following batteries only:
   - Primary - CR123A (3V)
   - Secondary - CR123A (3V)

EK-WL8-HS	(EKHO Brand) Wireless Category A1R Heat Detector with Type A Built-in Sounder	1571h/01

Notes:

1. Meets the requirements of EN 54-3 for the following tones:
   - One tone Steady, 3500Hz (On)
   - One tone Meander, 3500Hz (1s On / 1s Off)
   - One tone Meander, 3500Hz (2s On / 2s Off)
   - Two tone, 3500Hz & 2150Hz (1s / 1s)
   - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s)
   - One tone intermittent, 3500Hz (0.2s On / 1.3s Off)
   - ISO8201, 3500Hz (3*0.5s / 1.5s Off)
   - One tone continuous, 1000Hz (Continuous tone)
   - One-tone intermittent, 1000Hz (1s On / 1s Off)

2. The device must be used with the following batteries only:
   - Primary - CR123A (3V)
   - Secondary - CR123A (3V)

KM-WL8-HS	(K-Mesh Brand) Wireless Category A1R Heat Detector with Type A Built-in Sounder	1571h/01

Notes:

1. Meets the requirements of EN 54-3 for the following tones:
   - One tone Steady, 3500Hz (On)
   - One tone Meander, 3500Hz (1s On / 1s Off)
   - One tone Meander, 3500Hz (2s On / 2s Off)
   - Two tone, 3500Hz & 2150Hz (1s / 1s)
   - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s)
   - One tone intermittent, 3500Hz (0.2s On / 1.3s Off)
   - ISO8201, 3500Hz (3*0.5s / 1.5s Off)
   - One tone continuous, 1000Hz (Continuous tone)
   - One-tone intermittent, 1000Hz (1s On / 1s Off)

2. The device must be used with the following batteries only:

- Primary - CR123A (3V)

- Secondary - CR123A (3V)

Certificate No: 1825c-(cl-1) to EN 54-3: 2014 + A1: 2019, EN 54-7:2018, EN 54-23: 2010, EN 54-25:2008

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARC-WL8-OV	Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3 for the following tones: Default messages loaded by manufacturer are the following: a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01) b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing: Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s) c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing: Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s) Additional approved tones for WL8-OV device are the following: d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45) e) Continuous (3500 Hz, s52) f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence) g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit) h) Voice message 5 (Fire! Fire! Please leave the building by the central exit) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V) 4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-7.5, O-4.4-7.5 - Synchronization - Flash rate 0.5Hz - White LED	1825c/01
EK-WL8-OV	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3 for the following tones: Default messages loaded by manufacturer are the following: a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01) b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing: Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s) c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing: Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s) Additional approved tones for WL8-OV device are the following: d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45) e) Continuous (3500 Hz, s52) f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence) g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit) h) Voice message 5 (Fire! Fire! Please leave the building by the central exit) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V) 4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-7.5, O-4.4-7.5 - Synchronization - Flash rate 0.5Hz - White LED	1825c/01
KM-WL8-OV	(K-Mesh Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD	1825c/01

Notes:
1. Meets the requirements of EN 54-3 for the following tones:
Default messages loaded by manufacturer are the following:
a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01)
b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing: Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s)
c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing: Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s)

Additional approved tones for WL8-OV device are the following:
d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45)
e) Continuous (3500 Hz, s52)
f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence)
g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit)
h) Voice message 5 (Fire! Fire! Please leave the building by the central exit)
2. Approved to EN54-7 at the following sensitivity settings:
- High
- Normal
- Low
3. The device must be used with the following batteries only:
- Primary – CR123A (3V)
- Secondary – CR123A (3V)
4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:
- Category rating C-3-7.5, O-4.4-7.5
- Synchronization
- Flash rate 0.5Hz
- White LED

Certificate No: 1825f-(cl-1) to EN 54-25:2008, EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARC-WL8-SND	Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825f/01
EK-WL8-SND	(EKHO Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825f/01
KM-WL8-SND	(K-Mesh Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825f/01

Certificate No: 1825k-(cl-1) to EN 54-3: 2014 + A1: 2019, EN 54-5:2017 + A1:2018, EN 54-25:2008

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ARC-WL8-HS	Wireless Category A1R Heat Detector with Type A Built-in Sounder Notes:	1825k/01

	1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	
EK-WL8-HS	(EKHO Brand) Wireless Category A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825k/01
KM-WL8-HS	(K-Mesh Brand) Wireless Category A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825k/01

ATEIS Middle East FZCO

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Certificate No: 1154s to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
WCWS100	Velox Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	1154s/01

Detectors:
VELOX WL100 Wireless optical smoke detector

VELOX WL200 Wireless multi-criteria detector
VELOX WL350 Wireless heat detector

Certificate No: 1154t to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
WCWSF100	Velox Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	1154t/01

Bharat Fire Fighting PVT Ltd

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Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450a-(cl-3) to EN 54-3:2014 + A1:2019

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
BKG200	Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) Notes: Meets the requirements of EN 54-3: for the following tones 1) One Default Tone 3.5s ~ 4.5s The Beacon function is not approved to EN 54-23	1450a/01
BKG220	Sounder Base Type A Notes: Meets the requirements of EN 54-3: for the following tones Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s) Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)	1450a/02
BKG210	Addressable Sounder Strobe Type A Notes: Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

Base

Base with 86H50 Embedded Box

Brilliant Lighting Limited

Brilliant Lighting Limited, Flat 2, 18/F, Block E, Wah Lok Industrial Centre, Shan Mei Street, Fotan, Shatin, Hong Kong
Tel: +825 26903037
E-mail: leo@brillianthk.com.hk

Certificate No: 1592a-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ABA-6-24	a&b 6 Fire Alarm Bell with Aluminium Gong Notes: 1. Type A 2. Meets the requirements of EN 54-3 for the following tones: (i) one tone (bell)	1592a/01
ABA-8-24	a&b 8 Fire Alarm Bell with Aluminium Gong Notes: 1. Type A 2. Meets the requirements of EN 54-3 for the following tones: (i) one tone (bell)	1592a/02
ABA-10-24	a&b 10 Fire Alarm Bell with Aluminium Gong Notes: 1. Type A 2. Meets the requirements of EN 54-3 for the following tones: (i) one tone (bell)	1592a/03

Certificate No: 1592b-(cl-1) to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
AB150S-C	"a&b" Ceiling Mounted Square Visual Fire Alarm Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-6.2, O - Synchronization - Flash rate 1Hz - Red LED - Clear lens 2. Type A	1592b/01
AB150S-W	"a&b" Wall Mounted Square Visual Fire Alarm Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-2.4-5 - Synchronization - Flash rate 1Hz	1592b/02

	- Red LED - Clear lens 2. Type A	
AB150	"a&b" Ceiling Mounted Round Visual Fire Alarm Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-6.2, O - Synchronization - Flash rate 1Hz - Red LED - Clear lens 2. Type A	1592b/03

Bristol Fire Engineering LLC

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E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174c-(cl-3) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
B61-6301	Conventional Type A Sounder Strobe (B61-4101 base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	1174c/01

Bases

AVI-6500 Base

Certificate No: 1330d-(cl-2) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AVI-6401	Addressable Sounder Strobe (AVI-6500 base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz 2900 Hz @ 3Hz - Tone 16, 500Hz 1200Hz, 3.5s on/0.25s off - Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	1330d/01
IGN-7203	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only.	1330d/02

2. Meets the requirements of EN 54-3 at the following tones:

· Tone 14, 2400 Hz 2900 Hz @ 3Hz

· Tone 16, 500Hz 1200Hz, 3.75s on/0.25s off

· Tone 17, 800Hz, 1s off/1s on

The strobe function is not approved to EN 54-23

Base

AVI-6500 Sounder Base

Ceasefire Industries Private Limited

E6, Selaqui Industrial Area, Dehradun, Uttarakhand, 248011, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928ah-(cl-5) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
TI-002272 + TI-002260	Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with TI-002260	928ah/01

Certificate No: 928w-(cl-5) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
TI-002232	Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (white) TI-002285	928w/05
TI-002233	Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)	928w/06

	2. The beacon function is not included within the scope of this approval 3. Cover plate (white) TI-002285	
TI-002272	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07

Certificate No: 928x-(cl-2) to EN 54-23: 2010

Product Name	Description	LPCB Ref. No
TI-002271	Conventional Type A Beacon (1 Flash Every 2 Seconds) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-7.5 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with TI-002231 Base	928x/02

Bases:

TI-002231 Base Adaptor

Certificate No: 928y-(cl-5) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
TI-002273	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01

Certificate No: 928z-(cl-5) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
TI-002273 + TI-002260	Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with TI-002260	928z/01

Computionics Limited (Trading as C-Tec)

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Certificate No: 176e to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
BF430A/CX/SR	Hi-Output Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/01
BF430A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/02
BF431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR),	176e/03

	or - a stacked sounder base combination with detectors from the Apollo Discovery range	
CA450A/SW	Addressable CAST Protocol Type A Compact Sounder with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
CA450A/SR	Addressable CAST Protocol Type A Compact Sounder with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
CA431A/W	Addressable CAST Protocol Type A Ceiling Base Sounder with Short Circuit Isolator, White, IP21C (BF431QCP) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c	176e/08
CA430A/SR	Addressable CAST Protocol Type A High Output Wall Sounder with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/04
CA430A/DR	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R) Note:	176e/05

	Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	
CA430A/DR/65	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/06
HP431A/W	HP Type A Base Sounder with Short Circuit Isolator, White, IP21C Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c	176e/08

Deep Base - IP33C

Shallow Base - IP21C

Deep Base - IP55

BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red

BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White

BF431QCP Quick Connect Plate

CC408 Activ Base

BF330CTLIDW White Cap

BF330CTLIDR Red Cap

Certificate No: 176f to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
BF433A/CX/SR	Hi-Output Addressable Type A (indoor) Wall Sounder VAD with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery) Notes:	176f/01

	1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC	
BF433A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC	176f/02
BF456A/CX/W	Addressable Type A (indoor) Ceiling Sounder VAD Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 - Flash rate 0.5Hz - Synchronisation - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC 3. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked sounder/VAD base combination with detectors from the Apollo Discovery range	176f/03
CA451A/SW	Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation	176f/07

	- White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC	
CA451A/SR	Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC	176f/07
CA432A/W	Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating O-R-3-2.5-18 - Synchronization - Flash rate 0.5Hz - White LED	176f/08
CA456A/W	Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec	176f/09

	- Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED	
CA433A/SR	Addressable CAST Protocol Type A High Output Wall Sounder VAD with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/04
CA433A/DR	Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/05
CA433A/DR/65	Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Notes:	176f/06

	1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	
HP433A/DR/65	HP Addressable Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, IP55 Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/06
HP456A/W	HP Ceiling Class Type A Base Sounder VAD with Short Circuit Isolator, White, IP21C Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED	176f/09

Shallow Base - IP21C

Deep Base - IP55

BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red

BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White

BF431QCP Quick Connect Plate

CC408 Activ Base

BF330CTLIDW White Cap

BF330CTLIDR Red Cap

Certificate No: 176g to EN 54-17:2005, EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
BF460A/CX/W	Addressable Type A (indoor) Ceiling VAD Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 - Flash Rate 0.5Hz - Synchronisation - Operating voltage 21-28 VDC 2. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked VAD base combination with detectors from the Apollo Discovery range	176g/01
CA458A/SW	Addressable CAST Protocol Type A Compact VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash Rate 0.5Hz - Synchronisation - White LED - Operating voltage 27-40 VDC	176g/02
CA458A/SR	Addressable CAST Protocol Type A Compact VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash Rate 0.5Hz - Synchronisation - White LED - Operating voltage 27-40 VDC	176g/02
CA459A/W	Addressable CAST Protocol Type A Ceiling Base VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP) Note: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:	176g/03

	- Category rating O-R-3-2.5-18 - Synchronization - Flash rate 0.5Hz - White LED	
CA460A/W	Addressable CAST Protocol Type A Ceiling Base VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP) Note: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED	176g/04

Shallow Base IP21C

BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red

BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White

BF431QCP Quick Connect Plate

Certificate No: 176q to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
BF431C/CC/W	Conventional Type A Indoor Base Sounder (White Enclosure) IP21C Note: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 DIN Tone (1200Hz-500Hz for 1s) - 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC 2) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors - C4408 Activ basic base, shall be used when detector is fitted.	176q/01
BF430C/CC/SR	Conventional Type A Indoor Hi Op Wall Sounder (Red Enclosure), Shallow Base, IP21C Note: 1) Approved to EN 54-3 at the following tones: · 1 CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) · 3 CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) · 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) · 6 DIN Tone (1200Hz-500Hz for 1s) 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	176q/02
BF430C/CC/DR	Conventional Type B Outdoor Hi Op Wall Sounder (Red Enclosure), Deep Base, IP33C	176q/03

	Note: 1) Approved to EN 54-3 at the following tones: · 1 CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) · 3 CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) · 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) · 6 DIN Tone (1200Hz-500Hz for 1s) · 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	
BF430C/CC/DR/65	Conventional Type B Outdoor Hi Op Wall Sounder (Red Enclosure), Deep Base, IP55C Note: 1) Approved to EN 54-3 at the following tones: · 1 CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) · 3 CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) · 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) · 6 DIN Tone (1200Hz-500Hz for 1s) · 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	176q/04
BF430C/CC/SW	Conventional Type A Indoor Hi Op Wall Sounder (White Enclosure), Shallow Base, IP21C Note: 1) Approved to EN 54-3 at the following tones: - 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 – DIN Tone (1200Hz-500Hz for 1s) - 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	176q/05

Bases:

Deep Base

Shallow Base

C4408 Activ Base

Accessories:

BF431/QCP Quick Connect Plate

BF330CTLIDW White Cap

BF330CTLIDR Red Cap

Certificate No: 176r to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
BF432C/CC/W	Conventional Type A Indoor O Class Base Sounder VAD, White LED (White Enclosure) IP21C Notes: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 DIN Tone (1200Hz-500Hz for 1s) - 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC	176r/01

	2) Meets the requirements of EN 54-23 for the following: - Category O-R-3-2.5-17 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC 3) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors - C4408 Activ basic base, shall be used when detector is fitted.	
BF456C/CC/W	Conventional Type A Indoor C Class Base Sounder VAD, White LED (White Enclosure) IP21C Notes: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 - CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 - CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC 2) Meets the requirements of EN 54-23 for the following: - Category C-3-8.5 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC 3) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors - C4408 Activ basic base, shall be used when detector is fitted.	176r/02
BF433C/CC/SR	Conventional Type A Indoor Hi Op Wall Sounder VAD (Red Enclosure), Shallow Base, IP21C Notes: 1) Approved to EN 54-3 at the following tones: · 1 CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) · 3 CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) · 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) · 6 DIN Tone (1200Hz-500Hz for 1s) · 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC	176r/03

BF433C/CC/DR	Conventional Type B Outdoor Hi Op Wall Sounder VAD (Red Enclosure), Deep Base, IP33C Notes: 1) Approved to EN 54-3 at the following tones: · 1 CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) · 3 CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) · 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) · 6 DIN Tone (1200Hz-500Hz for 1s) · 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC	176r/04
BF433C/CC/DR/65	Conventional Type B Outdoor Hi Op Wall Sounder VAD (Red Enclosure), Deep Base, IP55C Notes: 1) Approved to EN 54-3 at the following tones: · 1 CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) · 3 CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) · 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) · 6 DIN Tone (1200Hz-500Hz for 1s) · 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC	176r/05

Bases:

Deep base

Shallow base

C4408 Activ Base

Accessories:

BF431/QCP Quick Connect Plate

BF330CTLIDW White Cap

BF330CTLIDR Red Cap

Context Plus Ltd

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Certificate No: 010ak-(cl-6) to EN 54-3:2014 +A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
55000-005IMC	Intelligent Open-Area Sounder Visual Indicator Red with Red Lens (45681-518IML Enhanced Deep Isolating Base)	010ak/03

Notes:

1. Meets the requirements of EN 54-3 at the following tones:

Apollo standard-840Hz,0.5s/558Hz,0.5s

Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off

German DIN-1200-500Hz over 1s

2. The Beacon function is not approved to EN 54-23

Bases

45681-518IML Enhanced Deep Isolating Base (Red)

Certificate No: 176e-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CON430A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/02
CON431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as: - A stacked sounder base combination with detectors from the Apollo Discovery range	176e/03
CA430A/DR/65/CON	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V dc	176e/06
CA431A/W/CON	Addressable CAST Protocol Type A Ceiling Base Sounder with Short Circuit Isolator, White, IP21C Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec	176e/08

- Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off

- German DIN Tone, 1200Hz-500Hz for 1s

- French Fire Tone, 554Hz for 100ms/440Hz for 440ms

- Operating voltage range 24-40V dc

Bases

Shallow Base IP21C

Deep Base IP55

Certificate No: 176f-(cl-2) to EN 54-17:2005, EN 54-3:2014 + A2:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
CON433A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC	176f/02
CA433A/DR/65/CON	Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/06

Bases Deep Base IP55 BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red

Certificate No: 546a-(cl-6) to EN 54-3:2001 + A1:2002 + A2:2006
Certificate No: 546a-(cl-6) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CP550SB	Conventional Indoor Type A Sounder	546a/01

	Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN 54-3 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2nd Stage tone for all above (800Hz continuous tone) 11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	
CP550DB	Conventional Outdoor Type B Sounder Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN 54-3 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2nd Stage tone for all above (800Hz continuous tone) 11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
CP850BSW	Conventional Indoor Type A Sounder Base Notes: 1. Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (800-1000Hz @ 0.5 Sec) 3 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 11 - 1st Stage, Dutch Sweep Tone (970Hz Cont) 11 - 2nd Stage, Dutch Sweep Tone (500-1200Hz for 3.5s on, 0.5s off) 25 - German DIN Tone (Sweep 1200-500Hz @ 1 Hz) 27 - French Tone AFNOR (554 Hz 100ms and 440Hz for 400ms) 3. Cover Plate (white) - Part no. 116-099 Cover Plate (ivory) - Part no. 116-119	546a/04

Bases

SB-400IMC Shallow base (red)

DB-450IMC Deep base (red)

Deep Base

45681-518IML Enhanced Deep Isolating Base (Red)

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Certificate No: 546a to EN 54-3:2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
VTG-32E-SB	Conventional indoor Type A sounder *Notes:* *1) The sounder is approved in red and white colours (-R and -W suffixes)* *2) Certified to EN54-3: with the following selectable tones:* *1 - LF Sweep frequency (800-1000Hz in 0.5sec)* *25 - German DIN tone Sweep (1200-500Hz @ 1Hz)* *27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms)* *2nd Stage tone for all above (800Hz continuous tone)* *11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)*	546a/01
VTG-32E-DB	Conventional outdoor Type B sounder *Notes:* *1) The sounder is approved in red and white colours (-R and -W suffixes)* *2) Certified to EN54-3: with the following selectable tones:* *1 - LF Sweep frequency (800-1000Hz in 0.5sec)* *25 - German DIN tone Sweep (1200-500Hz @ 1Hz)* *27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms)* *2nd Stage tone for all above (800Hz continuous tone)* *11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)*	546a/01
VSO-32E	Conventional indoor Type A sounder base *Notes:* 1) Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2) Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (Cranford sweep) (800-1000Hz @ 0.5 Sec) 3 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 11 - 1st Stage, Dutch Sweep Tone (970Hz Cont) 11 - 2nd Stage, Dutch Sweep Tone (500-1200Hz for 3.5s on, 0.5s off) 25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) 27- French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) 3) Cover plate (Part No. 116-099) must be used .	546a/04
VPR-SA4E	Conventional Outdoor Type B Wall Sounder (116-100 Mounting Base) Notes: 1. The Sounder is approved in Red (Part No.: 505-047) and White (Part No.: 505-048) Colours (-R and -W suffixes) 2. Certified to EN 54-3 with the following selectable tones: Continuous Tone, 800Hz continuous Sweep Tone, 800Hz - 1000Hz swept every 500ms (2Hz) Pips Tone, 800Hz for 800ms, then off for 500ms Warble Tone, 800Hz for 800ms, then 1000Hz for 500ms	546a/06

Base:

116-100 Viper Mounting Base

DEF..

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Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1451c-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ZEPHYR-DSAF	Conventional Type A Sounder (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2 - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc	1451c/01
ZEPHYR-SDSAF	Conventional Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451c/02

Accessories:

S3000M Base

Cover Plate

Certificate No: 1451d-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ZEPHYRA-DSAF	Addressable Type A Sounder with Short Circuit Isolator (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz	1451d/01

	Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz - Battery management (This battery management is not part of the scope of EN 54-3). 2) Operating Voltage Range 30Vdc to 41Vdc	
ZEPHYRA-SDSAF	Addressable Type A Base Sounder with Short Circuit Isolator Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz - Battery management (This battery management is not part of the scope of EN 54-3). 2) Operating Voltage Range 30Vdc to 41Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451d/02

Accessories

S3000M Base

Cover Plate

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia, 23834, USA
Tel: 804-417-2244
E-mail: marketing@detectfire.info • Website: http://detectfire.info/

Certificate No: 506e-(cl-9) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
DF-700-AB	Conventional Fire Alarm Bell	506e/01
DF-550-HS	Conventional Type B Electronic Sounder Beacon Note: 1. Meets the requirements of EN 54-3: 2001 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz 2 - Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Detectomat Systems GmbH..

An der Strusbek 3, Ahrensburg, Hamburg, 22926, Germany
Tel: +49 41 02 21 14 60
E-mail: zulassung@detectomat.com

Certificate No: 1451a-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AVS3000	Conventional Type A Sounder (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc	1451a/01
AS3000	Conventional Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451a/02

Accessories:

S3000M Base

Cover Plate

Certificate No: 1451b-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AVS3000A	Addressable Type A Sounder with Short Circuit Isolator (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz	1451b/01

	2) Operating Voltage Range 30Vdc to 41Vdc	
AS3000A	Addressable Type A Base Sounder with Short Circuit Isolator Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 30Vdc to 41Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451b/02

Accessories

S3000M Base

Cover Plate

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E-mail: jagdish@dormansmith-tech.com

Certificate No: 928ah-(cl-9) to EN 54-3: 2014 + A1: 2019, EN 54-17: 2005, EN 54-18: 2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
DFCW/SR+DFI7/M/SST	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 – Continuous Tone, 970Hz Tone 3 – Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 – German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ALWS-MOD	928ah/01
DFCW/SW+DFI7/M/SST	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 – Continuous Tone, 970Hz Tone 3 – Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 – German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ALWS-MOD	928ah/01

Ancillaries:
DFI7/M/SST Addressable Module with Short Circuit Isolator

Certificate No: 928z-(cl-10) to EN 54-3: 2014 + A1: 2019, EN 54-23: 2010, EN 54-17: 2005

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
DFC/SOUR/STC + DFI7/M/SST	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 – Continuous Tone, 970Hz Tone 3 – Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 – German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate – 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD	928z/01
DFC/SOUW/STC + DFI7/M/SST	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 – Continuous Tone, 970Hz Tone 3 – Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 – German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate – 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD	928z/01

Ancillaries:
T Addressable module with short circuit isolator

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Certificate No: 378h to EN 54-3: 2014 + A1: 2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CASB383 (Cooper)	Addressable Type A Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN 54-3 for the following tones:	378h/09

	- Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	
MASB860 (Menvier)	Addressable Type A Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN 54-3: for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	378h/09
FXN539LPS (JSB)	Addressable Type A Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	378h/09
CASB383WP (Cooper)	Addressable Type B Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	378h/10
MASB860WP (Menvier)	Addressable Type B Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	378h/10
FXN539LPSWP (JSB)	Addressable Type B Wall Sounder/Beacon with short circuit isolator	378h/10

	Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	
CASBB384 (Cooper)	Addressable Type A Sounder/Beacon Base with short circuit isolator	378h/11
	Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	
MASB870 (Menvier)	Addressable Type A Sounder/Beacon Base with short circuit isolator	378h/11
	Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	
FXN537 (JSB)	Addressable Type A Sounder/Beacon Base with short circuit isolator	378h/11
	Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	
CAS380 (Cooper)	Addressable Type A Sounder Base with short circuit isolator	378h/12
	Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	
MAS850 (Menvier)	Addressable Type A Sounder Base with short circuit isolator	378h/12

	Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	
FXN538 (JSB)	Addressable Type A Sounder Base with short circuit isolator Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	378h/12
CAS381 (Cooper)	Addressable Type A Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	378h/13
MAS850LPS (Menvier)	Addressable Type A Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	378h/13
FXN538LPS (JSB)	Addressable Type A Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	378h/13
CAS381WP (Cooper)	Addressable Type B Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	378h/14
MAS850LPSWP (Menvier)	Addressable Type B Wall Sounder with short circuit isolator	378h/14

	Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	
FXN538LPSWP (JSB)	Addressable Type B Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	378h/14
CASB383-B (Cooper)	Addressable Type A Wall Sounder/Beacon with Short Circuit Isolator Notes: 1) Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Bell Tone (This tone is not EN 54-3 approved) 2) The beacon functionality is not included within the scope of this approval	378h/15
CASB383WP-B (Cooper)	Addressable Type A/B Wall Sounder/Beacon with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Bell Tone (This tone is not EN 54-3 approved) 2. The beacon functionality is not included within the scope of this approval	378h/16
CASBB384-B (Cooper)	Addressable Type A Sounder/Beacon Base with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Bell Tone (This tone is not EN 54-3 approved) 2. The beacon functionality is not included within the scope of this approval	378h/17

Certificate No: 378k-(cl-3) to EN 54-23:2010, EN 54-3: 2001 + A1: 2002 + A2: 2006. EN 54-17:2005, EN 54-23: 2010, EN 54-3: 2014 + A1: 2019, EN 54-17: 2005

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
CASB393	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing)	378k/09

	Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	
FXN559LPS	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	378k/09
MASB880	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	378k/09
CASB393WP	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED	378k/10

	- Clear Lens 2) Meets the requirements of EN 54-3 at the following tones - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	
FXN559LPSWP	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) (JSB) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	378k/10
MASB880WP	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) (Menvier) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	378k/10
CASBB394	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the	378k/11

	approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	
FXN557	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) (JSB) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	378k/11
MASB890	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) (Menvier) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	378k/11
CASBB394-O	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens	378k/12

	2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	
CASB483	Addressable Type A Red Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 (High Power) + W-2.4-2.5 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap	378k/13
CASB483WP	Addressable Type A/B Red Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 (High Power) + W-2.4-2.5 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap	378k/14
CASB493	Addressable Type A White Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.27 (High Power) + W-2.4-2.18 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle.	378k/15

	- Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap	
CASB493WP	Addressable Type A/B White Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.25 (High Power) + W-2.4-1.24 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap	378k/16
CASB393-VSR	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing) – VAD Stop on Reset Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 984Hz Two Tone – 644 / 984Hz @ 1Hz cycle Slow whoop – 500-1200Hz in 3.5s / 0.5s gap 3) VAD Stop on Reset	378k/17
CASB393WP-VSR	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) – VAD Stop on Reset Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 984Hz Two Tone – 644 / 984Hz @ 1Hz cycle Slow whoop – 500-1200Hz in 3.5s / 0.5s gap 3) VAD Stop on Reset	378k/18
CASBB394-VSR	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) – VAD Stop on Reset Notes:	378k/19

1) Meets the requirements of EN 54-23 at the following:

   Category rating Open Class

   Synchronization

   Flash rate 0.5Hz

   White LED

   Clear Lens

2) Meets the requirements of EN 54-3 at the following tones:

   Continuous 910Hz

   Two tone 610 / 910Hz at 1Hz cycle

   Slow whoop 500 – 1200Hz in 3.5 seconds / 0.5 second gap

3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes:
   Maximum Outer diameter 101mm
   Maximum height 43mm

4) CASC cover for sounder base

5) VAD Stop on Reset

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Certificate No: 378n to EN 54-3: 2001 + A1:2002 + A2:2006, EN 54-17: 2005, EN 54-3: 2014 + A1: 2019

Visual Warning Devices

Product Name	Description	LPCB Ref. No
CAB482WS	Addressable Type A Red Light Flash Wall VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens	378n/01
CAB482WD	Addressable Type A/B Red Light Flash Wall VAD with Isolator (Red Body) (Shallow Base/Deep Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.48 - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens	378n/02
CAB492WS	Addressable Type A White Light Flash Wall VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens	378n/03
CAB492WD	Addressable Type A/B White Light Flash Wall VAD with Isolator (Red Body) (Shallow Base/Deep Base) Notes: 1. Meets the requirements of EN 54-23 at the following:	378n/04

	- Category W-2.4-7.5 + W-2.4-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens	
CAB482CS	Addressable Type A Red Light Flash Ceiling VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category C-3.0-7.5 + C-3.0-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens	378n/05
CAB492CS	Addressable Type A White Light Flash Ceiling VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category C-3.0-7.5 + C-3.0-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens	378n/06
FXN592CS (JSB)	Addressable Type A White Light Flash Ceiling VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category C-3.0-7.5 + C-3.0-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens	378n/06
MAB892CS (Meniver)	Addressable Type A White Light Flash Ceiling VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category C-3.0-7.5 + C-3.0-2.5 - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens	378n/06

Shallow Base (Type A)

Deep Base (Type B)

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Certificate No: 1120a to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
DB3B 54W	Conventional Sounder Type B Note:	1120a/02

	1. Meets the requirements of EN 54-3 for the following tones: - Tone 3 Sweeping 800/1000Hz at 1Hz - Tone 7 Slow whoop 500-1200Hz in 3.5 seconds / 0.5 secs gap - Tone 8 Sweep 1200-500Hz at 1Hz - Tone 15 554Hz for 100ms / 440Hz for 400ms - Tone 19 Continuous at 660Hz - Tone 20 Alt 554 / 440Hz at 1Hz	
DB3B 54D	Conventional Sounder Type B (ATEX) Note: 1. Meets the requirements of EN 54-3 for the following tones: - Tone 3 Sweeping 800/1000Hz at 1Hz - Tone 7 Slow whoop 500-1200Hz in 3.5 seconds / 0.5 secs gap - Tone 8 Sweep 1200-500Hz at 1Hz - Tone 15 554Hz for 100ms / 440Hz for 400ms - Tone 19 Continuous at 660Hz - Tone 20 Alt 554 / 440Hz at 1Hz	1120a/02

Certificate No: 1120b to EN54-23: 2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
XB15 (White)	Conventional Visual Alarm Device Type B (white light) 1) The VAD does not contain a function for synchronicity between devices. 2) The VAD is rated as C-3-32, C-6-31, C-9-12 and W-8-13. 3) The VAD must only be used with the clear lens and is only approved for the 24V d.c. version, at 1Hz flash rate and must not be used with a lens guard. 4) When used as a wall mounted VAD the device must be installed in accordance with the guidance given in TM250.	1120b/01
XB15 (Red)	Conventional Visual Alarm Device Type B (red light) 1) The VAD does not contain a function for synchronicity between devices. 2) The VAD is rated as C-3-16, C-6-6 and W-3-5. 3) The VAD must only be used with the red lens and is only approved for the 24V d.c. version, at 1Hz flash rate and must not be used with a lens guard. 4) When used as a wall mounted VAD the device must be installed in accordance with the guidance given in TM250.	1120b/02

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Certificate No: 331h-(cl-1) to EN 54-3:2001 + A1: 2992 + A2: 2006, EN 54-3: 2014 + A1: 2019

Audile Warning Devices

Product Name	Description	LPCB Ref. No
MAGDUOSR	MAGDUO Conventional Type A Sounder (Red) Notes:	331h/01

	1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s.	
MAGDUOSW	MAGDUO Conventional Type A Sounder (White) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s.	331h/01
MAGDUOSSLP	MAGDUO Conventional Type A Sounder Strobe Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms. 2) The strobe functionality is not included within the scope of this approval.	331h/02
MAGDUOSS	MAGDUO Conventional Type A Sounder Strobe (domed) Note: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms 2) The strobe functionality is not included within the scope of this approval.	331h/03
MAGDUOSRIP55	MAGDUO Conventional Type B Sounder IP55 Rated Note: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms.	331h/04
MAGDUOSRSQ	MAGDUO Conventional Type A Wall Sounder (Red) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms	331h/05
MAGDUOSWSQ	MAGDUO Conventional Type A Wall Sounder (White) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms	331h/05

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates
Tel: +971 6 5340300
E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506e to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FX-0218	Conventional Fire Alarm Bell	506e/01

EPITOME TRADING AND CONTRACTING

C-Ring Road, Cinema Signal, Ali Bin Jabor Complex, Doha, 203197, Qatar
Tel: +97430300467
E-mail: amr@epitometc.com

Certificate No: 1174c-(cl-8) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FS-HS11	Conventional Type A Sounder Strobe (FS-B11 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz – 2900Hz @ 3 Hz 2) Tone 10, 500Hz – 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	1174c/01

Bases
FS-B11 Mounting Base

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire, PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213ab to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
100-3800V	EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz	1213ab/01

	- Synchronization	
100-3800VW	EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	1213ab/01

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Certificate No: 1213ac to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
100-3801V + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with 100-2050V	1213ac/01
100-3801VW + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with 100-2050V	1213ac/01

Ancillaries
100-2050V Addressable module with short circuit isolator

Certificate No: 1213ad to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
100-3800V + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes:	1213ad/01

	1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with 100-2050V	
100-3800VW + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with 100-2050V	1213ad/01

Ancillaries
100-2050V Addressable module with short circuit isolator

Certificate No: 1213j to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
200-103	Odyssey Type B Intelligent Open Area Sounder (Red) (200-307 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	1213j/01
200-104	Odyssey Type B Intelligent Open Area Sounder Beacon (Red) (200-307 enhanced deep isolating bases) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	1213j/02
100-2010V	EURV-ABS Intelligent Platform Sounder Base	1213j/03

	Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	
100-5011V	EURV-ABSB Intelligent Platform Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	1213j/04
100-3801V	EURVC-SB Conventional Type A/B (indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	1213j/05
100-3801VW	EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	1213j/05

Bases:
200-307 Enhanced deep isolating base (Red)

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Torfaen, NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331h to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
302-000x	Twinflex Hatari Conventional Type A sounder **Notes:** 1. Key:	331h/01

	x = 1 Colour Red x = 2 Colour White. 2. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s.	
302-0012	Twinflex Flashpoint Conventional Type A sounder/strobe **Notes:** 1. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms. 2. The strobe functionality is not included within the scope of this approval.	331h/02
302-0022	Twinflex Flashpoint Conventional Type A sounder/strobe (domed) **Notes:** 1. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms. 2. The strobe functionality is not included within the scope of this approval.	331h/03
302-0004	Twinflex Hipoint Conventional Type B sounder **Note:** 1. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms.	331h/04
313-002x	Twinflex Soundpoint Conventional Type A sounder **Notes:** 1. Key: x = 1 Colour Red x = 2 Colour White. 2. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms	331h/05

Certificate No: 331j to EN 54-3:2000 + A1:2002 + A2:2006 & EN 54-17:2005, EN 54-3: 2014 + A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
326-0001	Sita Analogue Addressable Type A sounder with low profile base, and short circuit isolator. *Note:* 1) Meets the requirements of EN 54-3 at the following tones: - Continuous 970Hz Pulsed 970Hz 1s on, 1s off	331j/01

Dual Tone 970Hz 0.25s, 800Hz 0.25s

Sweep Up 800-970Hz over 1s

Slow Whoop 500-1200Hz over 3s, 0.5s off

Sweep Down 1200-500Hz over 1s

Dual French 550Hz 0.1s, 440Hz 400ms.

326-0003	Sita Analogue Addressable Type A sounder with deep base, and short circuit isolator. *Note:* 1) Meets the requirements of EN 54-3 at the following tones: - Continuous 970Hz Pulsed 970Hz 1s on, 1s off Dual Tone 970Hz 0.25s, 800Hz 0.25s Sweep Up 800-970Hz over 1s Slow Whoop 500-1200Hz over 3s, 0.5s off Sweep Down 1200-500Hz over 1s Dual French 550Hz 0.1s, 440Hz 400ms.	331j/02
326-0021-R	Sita Analogue Addressable Type A sounder/strobe with low profile base, and short circuit isolator. *Note:* 1) Meets the requirements of EN 54-3 at the following tones: - Continuous 970Hz Pulsed 970Hz 1s on, 1s off Dual Tone 970Hz 0.25s, 800Hz 0.25s Sweep Up 800-970Hz over 1s Slow Whoop 500-1200Hz over 3s, 0.5s off Sweep Down 1200-500Hz over 1s Dual French 550Hz 0.1s, 440Hz 400ms. 2) The strobe function is not included within the scope of this certification	331j/03
326-0023-R	Sita Analogue Addressable Type A sounder/strobe with deep base, and short circuit isolator. *Note:* 1) Meets the requirements of EN 54-3 at the following tones: - Continuous 970Hz Pulsed 970Hz 1s on, 1s off Dual Tone 970Hz 0.25s, 800Hz 0.25s Sweep Up 800-970Hz over 1s Slow Whoop 500-1200Hz over 3s, 0.5s off Sweep Down 1200-500Hz over 1s Dual French 550Hz 0.1s, 440Hz 400ms. 2) The strobe function is not included within the scope of this certification	331j/04
323-0001	Sita Hipoint Analogue Addressable Type B sounder with short circuit isolator.	331j/05

Note:

1) Meets the requirements of EN 54-3 at the following tones: -

Continuous 970Hz

Pulsed 970Hz 1s on, 1s off

Dual Tone 970Hz 0.25s, 800Hz 0.25s

Sweep Up 800-970Hz over 1s

Slow Whoop 500-1200Hz over 3s, 0.5s off

Sweep Down 1200-500Hz over 1s

Dual French 550Hz 0.1s, 440Hz 400ms.

313-000x	Sita Soundpoint Analogue Addressable Type A sounder with short circuit isolator.	331j/06

Notes:

1) Key:

x = 1 Colour Red

x = 2 Colour White.

1) Meets the requirements of EN 54-3 at the following tones: -

Continuous 970Hz

Pulsed 970Hz 1s on, 1s off

Dual Tone 970Hz 0.25s, 800Hz 0.25s

Sweep Up 800-970Hz over 1s

Slow Whoop 500-1200Hz over 3s, 0.5s off

Sweep Down 1200-500Hz over 1s

Dual French 550Hz 0.1s, 440Hz 400ms.

Finder Yangin Güvenlik Elektronik Sistemler A.S

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 221 40 07
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450a-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FF LSB550	Intelligent Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box)	1450a/01

Notes:

Meets the requirements of EN 54-3 for the following tones

1) One Default Tone 3.5s ~ 4.5s

The Beacon function is not approved to EN 54-23

FF BS500-LS	Sounder Base Type A	1450a/02

Notes:

Meets the requirements of EN 54-3 for the following tones:

	Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s) Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)	
FF LSB550-LP	Addressable Sounder Strobe Type A Notes: Meets the requirements of EN 54-3 for the following tone: 1) One Default Tone, 1.67KHz – 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

Base
Base with 86H50 Embedded Box

Certificate No: 928z-(cl-6) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
FF ESF100+FF LX200	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with FF LX200	928z/01

Ancillaries
FF LX200 Addressable module with Short Circuit Isolator

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174c-(cl-6) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FST-6737	Addressable Type A Indoor Digital Sounder Beacon (FST-6619 Base) (branded as FST) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz	1174c/02

	2. The beacon function is not included within the scope of this approval

Bases

FST-6619 Mounting Base

Fireguard Global Ltd.

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands, WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 506e-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FG-0218	Conventional Fire Alarm Bell	506e/01
FG-03127S	Conventional Type B Electronic Sounder (FG-03127MB) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz 2 - Sweeping 800/970Hz at 7Hz	506e/02
FG-03127BS	Conventional Type B Electronic Sounder Beacon (FG-03127MB) Notes: 1. Meets the requirements of EN54-3 at the following tones: 1-Alternating Tones 800/970Hz at 2Hz 2-Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Base:

FG-03127MB

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, HP11 2NF, United Kingdom
Tel: 00971 653 40300
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548e-(cl-3) to EN 54-3: 22014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FX9403	Conventional sounder strobe (Shallow Base and FX94DB Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz 3. The strobe function is not in the scope of this approval.	548e/01
FX9403I	Intelligent sounder strobe (Shallow Base and FX94DB Base) **Notes:** 1. Meets the requirements of EN 54-3 at the following tones:	548e/02

	Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500HZ - 1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off 2. Approved in both normal and power saving mode 3. The visual alarm function is not in the scope of this approval 4. Approved with single address and dual address (pre-alarm and main alarm).	
FX9404	Conventional Type A Sounder (Shallow base, FX94DB Deep Base) Note: 1. Meets the requirements of EN 54-3 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz - 2900Hz @ 3Hz	548e/04
FX9404I	Intelligent Type A Sounder (Shallow base, FX94DB Deep base) Note: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s / 0.25s off Pre-Alarm 800Hz 1s off / 1s on	548e/05
FXI9405E	Analogue Addressable Type A Sounder Base (FX-01 Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off 2. Approved with FXI9103E heat detector and FXI9102E smoke detector	548e/06
FXI9406E	Analogue Addressable Type A Flashing Sounder Beacon Base (FX-01 Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off 2. Approved with FXI9103E heat detector and FXI9102E smoke detector 3. The visual alarm function is not in the scope of this approval	548e/07

Bases:

Shallow Base

FX94DB Deep Base

FX-01 Standard Base

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042bj to EN 54-3:2014 + A1:2019, EN 54-17: 2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
S3-S-R	S-Cubed Type A Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note:	042bj/21

	1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	
S3-V-R	S-Cubed Type A Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz	042bj/22
S3-S-W	S-Cubed Type A White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/23
S3-V-W	S-Cubed Type A White Body Voice Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz	042bj/24
S3EP-S-R	S-Cubed Type A Red Body Sounder with Short Circuit Isolator (Back Box) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/25
S3-SN-R-BC	Backwards Compatible (MK1) Type A Sounder / Red Body (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/26
S3-SN-ST-RR-BC	Backwards Compatible (MK1) Type A Sounder - Strobe / Red Body (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/27

Products Extras

S3-DB-R S Cubed Deep Base Red

S3-DB-W S Cubed Deep Base White

S3-SB-R S Cubed Shallow Base Red

S3-SB-W S Cubed Shallow Base White

Back Box

Certificate No: 042bs to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
S3EP-V-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bs/07
S3EP-V-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14)	042bs/10

- Medium Performance setting - (Category W: W-6.5-12.5)

- Low Performance setting - (Category W: W-5-9.5)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

S3-S-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bs/01
S3-S-VAD-HPR-W	S-Cubed Type A Red High Performance VAD White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bs/02
S3-S-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes:	042bs/03

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

1. Intermittent tone 970Hz @ 1Hz

2. Alternating tone 730/970Hz @ 2Hz

3. Continuous tone 970Hz

2. Meets the requirements of EN 54-23 at the following power settings:

- Low white output

- Medium white output

- High white output

3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN

54-23 for the following light pattern details:

- High Performance setting - (Category W: W-5-12.5)

- Medium Performance setting - (Category W: W-4.5-11.3)

- Low Performance setting - (Category W: W-3-8.5)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

S3-V-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bs/04
S3-V-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output	042bs/05

- Medium red output
- High red output

3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W: W-6.7-14)
- Medium Performance setting - (Category W: W-6.5-12.5)
- Low Performance setting - (Category W: W-5-9.5)
- Synchronization
- Flash rate 2 seconds (0.5Hz)

S3-S-VAD-HPW-W	S-Cubed Type A White High Performance VAD White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bs/06
S3-S-VAD-LPR-R	S-Cubed Type A Red Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bs/11
S3-S-VAD-LPW-R	S-Cubed Type A White Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone	042bs/12

settings:

1. Intermittent tone 970Hz @ 1Hz
2. Alternating tone 730/970Hz @ 2Hz
3. Continuous tone 970Hz

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- Low Performance setting - (Category W: W-3-8.5)
- Synchronization
- Flash rate 2 seconds (0.5Hz)

Bases:

Shallow Base

Deep Base

Black Box

Note - All products may be used with either base

S4-700 Standard Base

S4 FLUSH Semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 042bt to EN54-17:2005, EN54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
S3-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/01
S3-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 for the following modes: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:	042bt/02

	- High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	
S3EP-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/03
S3EP-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/04

Bases:

Shallow Base

Deep Base

Black Box

Certificate No: 042cf to EN 54-23:2010, EN 54-17:2005 & EN 54-18:2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
S4M-VAD-LPR	S4 Low Power Type A Red VAD (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:	042cf/01

- Category rating C-3-10
- Synchronization
- Flash rate 0.5Hz
- Red LED
- Clear lens

Products Extras

S4-700 Standard Base

S4 FLUSH Semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 042cg to EN 54-3:2014 + A1:2019, EN 54-17:2005 & EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
S4M-S	S4 Type A Sounder (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The requirements of EN 54-3 for the following tones: Mode A - High - Continuous at 933Hz Mode B - Alternate - High 933Hz for 0.25 secs / Low 700 Hz for 0.25 secs Message 1 Bell tone Message 2 *Attention please this an emergency please leave the building by nearest available exit* (female voice) Message 3 # *An incident has been reported in this building please await further instructions* (female voice) Message 4 *This is a test message no action is required* (female voice) Message 5 # *This is a fire alarm please leave the building immediately by the nearest available exit* (male voice) # Approved to EN 54- Annex C.	042cg/01

Bases:

S4-700 Standard Base

S4 FLUSH Semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 042ch/01 to EN 54-3:2014 + A1: 2019, EN 54-23:2010, EN 54-17:2005 & EN 54-18:2005

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
S4M-V-VAD-LPR	S4 Voice Sounder Low Power Type A Red VAD (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The requirements of EN 54-3 for the following tones: Mode A - High - Continuous at 933Hz Mode B - Alternate - High 933Hz for 0.25 secs / Low 700 Hz for 0.25 secs Message 1 Bell tone Message 2 *Attention please this an emergency please leave the building by nearest available exit* (female voice) Message 3 # *An incident has been reported in this building please await further instructions* (female voice)	042ch/01

Message 4 *This is a test message no action is required* (female voice)

Message 5 # *This is a fire alarm please leave the building immediately by the nearest available exit* (male voice)

Approved to EN 54- Annex C.

2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category rating C-3-10
- Synchronization
- Flash rate 0.5Hz
- Red LED
- Clear lens

Products Extras

S4-700 Standard Base

S4 FLUSH Semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Gulf Alarm UK Limited

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E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330d-(cl-5) to EN 54-3: 2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
GA7300	Addressable Sounder Strobe (GA3980 base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz 2900 Hz @ 3Hz · Tone 16, 500Hz 1200Hz, 3.75s on/0.25s off · Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/01
GA7302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz 2900 Hz @ 3Hz · Tone 16, 500Hz 1200Hz, 3.75s on/0.25s off · Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

Bases

GA3980 Sounder Base

Gulf Security Technology Co., Ltd.

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Certificate No: 548e to EN 54-3: :2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
C-9403	Conventional sounder strobe (Shallow Base and C-94DB Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz 2. The strobe function is not in the scope of this approval.	548e/01
I-9403	Intelligent sounder strobe (Shallow Base and C-94DB Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500HZ - 1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off 2. Approved in both normal and power saving mode 3. The visual alarm function is not in the scope of this approval 4. Approved with single address and dual address (pre-alarm and main alarm).	548e/02
C-9404	Conventional Type A Sounder (Shallow base, C-94DB Deep Base) Note: 1. Meets the requirements of EN 54-3 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz-2900Hz @ 3Hz	548e/04
I-9404	Intelligent Type A Sounder (Shallow base, C-94DB Deep base) Note: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s/0.25off Pre-Alarm 800Hz 1s off / 1s on	548e/05
DI-9405	Analogue Addressable Type A Sounder Base (DB-01 base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on/0.25s off 2. Approved with DI-9103 heat detector and DI-9102 smoke detector	548e/06
DI-9406	Analogue Addressable Type A Flashing Sounder Beacon Base (DB-01 base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on/0.25s off	548e/07

2. Approved with DI-9103 heat detector and DI-9102 smoke detector

3. The visual alarm function is not in the scope of this approval

Bases

Shallow Base

C-94DB Deep base

Hochiki Europe (UK) Limited

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E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164ad to EN 54-3:2014+A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
YBO-BS2(SCI)	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - Ivory Version (YBV-R/4 and YBN-R/3 bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01
YBO-BS2(WHT)-SCI	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01
YBO-BS2(BLK)-SCI	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01
YBO-BS2(HFP)-SCI	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01

Approved Tones

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

Bases
YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(BLK) Standard Base

YBV-R/4Standard Base

YBV-R/4(WHT) Standard Base

YBV-R/4(BLK) Standard Base

Certificate No: 164ae to EN 54-3:2014+A1:2019

Visual Warning Devices

Product Name	Description	LPCB Ref. No
YBO-BSB3/RL(SCI)	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Ivory Version (YBV-R/4 and YBN-R/3 bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3(WHT)/RL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3(BLK)/RL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3/WL(SCI)	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) with Short Circuit Isolator - Ivory Version (YBV-R/4 and YBN-R/3 bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz	164ae/02

	- Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	
YBO-BSB3(WHT)/WL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) with Short Circuit Isolator - White Version (YBV-R/4(WHT) YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/02
YBO-BSB3(BLK)/WL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon White LED) with Short Circuit Isolator - Black Version (YBV-R/4(BLK) YBN-R/3(BLK) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/02
YBO-BSB3/RL(HFP)-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3/WL(HFP)-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) with Short Circuit Isolator - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/02

Approved Tones

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBV-R/4Standard Base

YBV-R/4(WHT) Standard Base

YBV-R/4(BLK) Standard Base
Standard Base
/HT) Standard Base
LK) Standard Base

Certificate No: 164h to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
YBO-BS(HFP)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) Note: 1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164h/01
YBO-BS(WHT)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/01
CHQ-WS2(HFP)	Intelligent Analogue Addressable Type A Wall Sounder (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) Note: 1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164h/02
CHQ-WS2(WHT)	Intelligent Analogue Addressable Type A Wall Sounder - White Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/02
CHQ-WS2/W	Intelligent Analogue Addressable Type B Wall Sounder- Weatherproof Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) Notes: 1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones 2) Includes a WS2-WPK Weatherproofing Kit	164h/02
YBO-BS	Intelligent Analogue Addressable Type A Base Sounder (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED)	164h/01

	Note: 1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	
CHQ-WS2	Intelligent Analogue Addressable Type A Wall Sounder (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/02
YBO-BS2	Intelligent Analogue Addressable Type A Base Sounder - Ivory Version (YBV-R/4 and YBN-R/3 bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones **Approved Tones** 1 925 Hz : 250 ms / 628 Hz : 250 ms 2 925 Hz Continuous 3 628 Hz Continuous 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 925 Hz : 150 ms / Off : 600 ms 7 670 Hz : 250 ms / 845 Hz : 370 ms 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms 9 1200 Hz : 500 ms / 500 Hz : 500 ms 10 970 Hz : 500 ms / Off : 500 ms 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz) 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz) 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz) 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz) 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz) 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz) 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms 19 800 Hz : 250 ms / 970 Hz : 250 ms 20 2850 Hz Continuous 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms 22 - 800 Hz : 500 ms / 970 Hz : 500 ms 23 - 2850 Hz : 500 ms / Off : 500 ms 24 - 925 Hz : 250 ms / Off : 1000 ms 25 - 970 Hz Continuous 26 - 660 Hz : 1800 ms / Off: 1800 ms 27 - 660 Hz : 6500 ms / Off : 13000 ms 28 - 660 Hz Continuous 29 - 554 Hz : 500 ms / 440 Hz : 500 ms 30 - 660 Hz : 500 ms / Off : 500 ms 31 - 2850 Hz : 150 ms / Off : 100 ms 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz) 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)	164h/06

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

YBO-BS2(WHT)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases)	164h/06

Note:

1. Meets the requirements of EN 54-3 for all 56 tones

Approved Tones

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

YBO-BS2(BLK)	Intelligent Analogue Addressable Type A Base Sounder - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases)	164h/06

Note:

1. Meets the requirements of EN 54-3 for all 56 tones

Approved Tones

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

YBO-BS2(HFP)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases)	164h/06

Note:

1. Meets the requirements of EN 54-3 for all 56 tones

Approved Tones

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

BEC-E	Red Sounder C/W Shallow Base	164h/07

Notes:

1. Type A with Shallow Base

2. Meets the requirements of EN 54-3 with the following tones:

- Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz

- Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz

- Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s

- Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms

- Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms

BEC-EW	Red Sounder C/W Deep Base	164h/07

Notes:

1. Type B with Deep Base

2. Meets the requirements of EN 54-3 with the following tones:

- Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz

- Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz

	- Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	
BELX-EW	Red Sounder/ Strobe C/W Deep Base Notes: 1. Type B with Deep Base 2. Meets the requirements of EN 54-3 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	164h/08
BELX-E	Red Sounder/ Strobe C/W Shallow Base Notes: 1. Type A with Shallow Base 2. Meets the requirements of EN 54-3 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	164h/08

Bases:

YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(BLK) Standard Base

YBN-R/3(WHT)-SCI Short Circuit Isolator Base

YBO-R/SCI(RED)Short Circuit Isolator Base

YBO-R/3(RED) Standard Base

YBO-R/3(WHT) Standard Base

YBV-R/4 Standard Base

YBV-R/4(WHT) Standard Base

YBV-R/4(BLK) Standard Base

Accessories:

WS2-WPK Weatherproofing Kit

Approved Tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms

2 - 925 Hz Continuous

3 - 628 Hz Continuous

4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 - 925 Hz : 150 ms / Off : 600 ms

7 - 670 Hz : 250 ms / 845 Hz : 370 ms

8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms

9 - 1200 Hz : 500 ms / 500 Hz : 500 ms

10 - 970 Hz : 500 ms / Off : 500 ms

11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)

12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)

13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)

14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)

15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)

16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)

17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 - 800 Hz : 250 ms / 970 Hz : 250 ms

20 - 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz - 500 Hz : 1000ms

55 - Ramp up 150 Hz - 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz - 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

Certificate No: 164s to EN 54-23: 2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
CHQ-CB(RED)/WL-15	Addressable Ceiling VAD (Red Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases) Notes: 1. *The ceiling mounted VAD meets the requirements of EN 54-23: for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2. *The ceiling mounted VAD meets the requirements of EN 54-23: for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: for the following categories: - Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/01
CHQ-CB(WHT)/WL-15	Addressable Ceiling VAD (White Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases)	164s/02

Notes:

1. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36*

- LOL 0 - Flash rate 0.5Hz

- Synchronization

2. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4*

- LOL 1 - Flash rate 0.5Hz

- Synchronization

3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4

- LOL 2 - Flash rate 0.5Hz

- Synchronization

4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-1.54-5.3, O-1.7-5

- LOL 0 - Flash rate 1Hz

- Synchronization

5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-1.5, O-2.6-8

- LOL 1 - Flash rate 1Hz

- Synchronization

6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27

- LOL 2 - Flash rate 1Hz

- Synchronization

7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit

CHQ-CB(RED)/WL	Addressable Ceiling VAD (Red Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS,YBO-BSB2(RL&WL) & YBO-BSB Bases)	164s/03

Notes:

1. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76*

- LOL 0 - Flash rate 0.5Hz

- Synchronization

2. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9*

- LOL 1 - Flash rate 0.5Hz

- Synchronization

3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42

- LOL 2 - Flash rate 0.5Hz

- Synchronization

4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.2-5.2

- LOL 0 - Flash rate 1Hz

- Synchronization

5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-5.9, O-2.75-5.1

- LOL 1 - Flash rate 1Hz

	- Synchronization *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(WHT)/WL	Addressable Type A Ceiling VAD (White Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.2-5.2* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/04
CHQ-CB(RED)/RL	Addressable Type A Ceiling VAD (Red Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2 - Flash rate 0.5Hz*	164s/05

	- Synchronization *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category:* *- Light Coverage Distance O-2.05-3.8* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(WHT)/RL	Addressable Ceiling VAD (White Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category:* *- Light Coverage Distance O-2.05-3.8* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/06
CHQ-CB/WL-15	Addressable Ceiling VAD (White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization*	164s/07

	2. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB/WL	Addressable Ceiling VAD (White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.2-5.2* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/08

CHQ-CB/RL	Addressable Ceiling VAD (Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.05-3.8* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/09
CHQ-CB(RED)/WL-15-HFP	Addressable Ceiling VAD (Red Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2. *The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1 - Flash rate 1Hz*	164s/01

	- Synchronization *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(WHT)/WL-15-HFP	Addressable Ceiling VAD (White Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/02
CHQ-CB(RED)/WL-HFP	Addressable Ceiling VAD (Red Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization*	164s/03

	4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: *- Light Coverage Distance O-2.2-5.2* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(WHT)/WL-HFP	Addressable Type A Ceiling VAD (White Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category:* *- Light Coverage Distance O-2.2-5.2* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/04
CHQ-CB(RED)/RL-HFP	Addressable Type A Ceiling VAD (Red Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following*	164s/05

	categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9 *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.05-3.8* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(WHT)/RL-HFP	Addressable Ceiling VAD (White Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0 - Flash rate 0.5Hz* *- Synchronization* 2*. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1 - Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2 - Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.05-3.8* *- LOL 0 - Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1 - Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2 - Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/06
CHQ-WB(WHT)/WL	Intelligent Analogue Addressable Type A Wall VAD (White Body, White LED) (YBO-	164s/11

	R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	
CHQ-WB(RED)/WL	Intelligent Analogue Addressable Type A Wall VAD (Red Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/12
CHQ-WB/RL	Intelligent Analogue Addressable Type A Wall VAD (Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes	164s/13

1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)

- LOL 0 - Flash rate 0.5Hz

- Synchronization

2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5

- LOL 1 - Flash rate 0.5Hz

- Synchronization

3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5

- LOL 2 - Flash rate 0.5Hz

- Synchronization

4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.7-1.07

- LOL 1 - Flash rate 1Hz

- Synchronization

5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-4

- LOL 2 - Flash rate 1Hz

- Synchronization

6. The Default factory setting is LOL 1, 0.5Hz

7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.

CHQ-WB(WHT)/RL	Intelligent Analogue Addressable Type A Wall VAD (White Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/14

CHQ-WB(RED)/RL	Intelligent Analogue Addressable Type A Wall VAD (Red Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/15
CHQ-WB(WHT)/WL-HFP	Intelligent Analogue Addressable Type A Wall VAD (White Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/11

CHQ-WB(RED)/WL-HFP	Intelligent Analogue Addressable Type A Wall VAD (Red Body, White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/12
CHQ-WB(WHT)/RL-HFP	Intelligent Analogue Addressable Type A Wall VAD (White Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz	164s/14

	7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	
CHQ-WB(RED)/RL-HFP	Intelligent Analogue Addressable Type A Wall VAD (Red Body, Red LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/15
CHQ-WB/WL	Intelligent Analogue Addressable Type A Wall VAD (White LED) (YBO-R/SCI(RED), YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:* *- Light Coverage Distance W-2.4-5* *- LOL 0* *- Flash rate 0.5Hz* *- Synchronization* *2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:* *- Light Coverage Distance W-2.4-5.5* *- LOL 1* *- Flash rate 0.5Hz* *- Synchronization* *3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:* *- Light Coverage Distance W-2.4-7* *- LOL 2* *- Flash rate 0.5Hz* *- Synchronization* *4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:* *- Light Coverage Distance W-2.4-1* *- LOL 1* *- Flash rate 1Hz* *- Synchronization*	164s/10

5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
- Light Coverage Distance W-2.4-5.5

- LOL 2
- Flash rate 1Hz

- Synchronization
6. The Default factory setting is LOL 1, 0.5Hz

7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit

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Bases:

YBN-R/3 Analogue mounting base (ivory and white)

YBO-R/SCI Isolator base

YBO-R/3(RED) Standard Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBN-R/3(WHT) Standard Base

YBO-R/3(WHT) Standard Base

YBN-R/3(SCI) Short Circuit Isolator Base

YBV-R/4 Standard Base

YBV-R/4(WHT) Standard Base

YBV-R/4(BLK) Standard Base

Certificate No: 164t to EN 54-3:2014+A1:2019, EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
CHQ-WSB2/WL	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/01
CHQ-WSB2/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/02
CHQ-WSB2(WHT)/WL	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes:	164t/03

	1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	
CHQ-WSB2(WHT)/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/04
YBO-BSB2/WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/05
YBO-BSB2/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/06
YBO-BSB2(WHT)/WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/07
YBO-BSB2(WHT)/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases	164t/08

	Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	
YBO-BSB2(BLK)/RL	Addressable Type A Base Sounder Beacon (Black Housing, Red LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/09
YBO-BSB2(BLK))/WL	Addressable Type A Base Sounder Beacon (Black Housing, White LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/10
YBO-BSB3/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Ivory Version (YBV-R/4 and YBN-R/3 bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3(WHT)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3(BLK)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz	164t/11

	- Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	
YBO-BSB3/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - Ivory Version (YBV-R/4 and YBN-R/3 bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
YBO-BSB3(WHT)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
YBO-BSB3(BLK)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
YBO-BSB3(WHT)/RL-HFP	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3(WHT)/WL-HFP	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
CHQ-WSB2/WL-HFP	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following:	164t/01

	- Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	
CHQ-WSB2/RL-HFP	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/02
CHQ-WSB2(WHT)/WL-HFP	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/03
CHQ-WSB2(WHT)/RL-HFP	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/04
YBO-BSB2(WHT)/WL-HFP	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/07
YBO-BSB2(WHT)/RL-HFP	Analogue Addressable Type A Base Sounder (Red LED) Beacon	164t/08

	YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	
YBO-BSB3(HFP)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3(HFP)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12

Approved Tones

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBO-R/3(RED) Standard Base

YBO-R/3(WHT) Standard Base

YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(BLK) Standard Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBN-R/3(WHT)-SCI Short Circuit Isolator Base

YBV-R/4 Standard Base

YBV-R/4(WHT) Standard Base

YBV-R/4(BLK) Standard Base

Accessories

WS2-WPK Weatherproofing kit

Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe)

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Tel: +41 44 943 4424
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

Certificate No: 567ag-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
WSS-xC-Iyy	Analogue Addressable Wall Mounted Sounder / LED Strobe with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. x indicates body colour. D=Detector White, P=Pure White 3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 4. Type A with Bcc deep back box, Type B with Wcc deep back box 5. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz;	567ag/21

10) Continuous 2810Hz;

11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) Intermittent 420Hz, 0.625s on, 0.625 sec off;

13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) Intermittent 630, 3.33Hz, 150ms on, 150ms off;

15) Intermittent 922, 0.8Hz 0.25s on, 1s off;

16) Intermittent 922, 0.5Hz 1s on, 1s off;

17) Intermittent 2810, 1Hz;

18) Intermittent 922, 1Hz 500ms on, 500ms off;

19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) Continuous 800Hz;

21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) Sweep 2400 - 2850, 7Hz;

24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on);

25) Sweep 800 - 970, 50Hz;

26) Sweep 800 - 970, 7Hz;

27) Sweep 800 - 970, 1Hz;

28) Sweep 2400 - 2850, 50Hz;

29) Sweep 500 - 1000, 7Hz;

30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) Sweep 800 - 1000, 2Hz;

32) Sweep 2400 - 2850, 1Hz

DSS-xC-Iyy

Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base) 567ag/22

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):

- Category O - Open Class

- Flash rate 1Hz

- Synchronization

2. x indicates body colour. D=Detector White, P=Pure White

3. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz.

BRH-xC-Ixx	Addressable Type A Detector Base Sounder Strobe	567ag/23

Notes:

1. x indicates body colour. Detector White, P=Pure White

2. xx indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,
Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

Hold 1200Hz for 4s

Falling from 1200Hz to 500Hz in 1s

Tone 31 - Sweep 800-1000Hz for 2Hz

Tone 32 - Sweep 2400-2850Hz for 1Hz

4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings High C-3-15, Low C-3-11 & O-1-4

- Synchronization

- Flash rate 0.5Hz & 1Hz

- Red LED

- Clear lens

BRS-xC-Ixx	Addressable Type A Detector Base Sounder Strobe	567ag/24

Notes:

1. P indicates body colour. P=Pure White

2. xx indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,

Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

Hold 1200Hz for 4s

Falling from 1200Hz to 500Hz in 1s

Tone 31 - Sweep 800-1000Hz for 2Hz

Tone 32 - Sweep 2400-2850Hz for 1Hz

4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings C-3-8.5 & O-1-3

- Synchronization

- Flash rate 0.5Hz & 1Hz
- Red LED
- Clear lens

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Certificate No: 567ah-(cl-3) to EN 54-17: 2005 & EN 54-23:2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
WST-xC-Iyy	Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box	567ah/05
BGL-xC-Ixx	Addressable Type A Detector Base Strobe Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens 2. x indicates body colour. D=Detector White, P=Pure White 3. xx indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567ah/07
WRL-PC-Ixx	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/08
WRL-RC-Ixx	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/09

WWL-PC-Ixx	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/10
WWL-RC-Ixx	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/11

Bases / Ancillaries

B501AP-cc Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting base - Low profile base IP21C

Certificate No: 567aw-(cl-4) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
WSO-xx-Nyy	Analogue addressable Type A/B wall mounted sounder (B501AP-cc, Bcc, Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;	567aw/09

	22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	
WSS-xx-Nyy	Analogue addressable Type A/B wall mounted sounder/strobe (B501AP-cc, Bcc, Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	567aw/10
BSO-xx-Nyy	Analogue addressable Type A integrated detector base sounder (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body colour. PP=Pure White, DD=Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:	567aw/11

	1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	
BSS-xx-Nyy	Analogue addressable Type A integrated detector base sounder/strobe (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;	567aw/12

31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Certification excludes the strobe function.

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Certificate No: 567ax-(cl-2) to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
WST-xC-Nyy	Analogue addressable wall mounted LED strobe (B501AP base)	567ax/05
	Notes:	
	1. The wall mounted VAD meets the requirements of EN 54-23: 2010	
	for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz	
	- Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box	

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Certificate No: 567ay-(cl-2) to EN 54-3:2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
WSS-xC-Nyy	Analogue Addressable Wall Mounted Sounder / LED Strobe (B501AP base)	567ay/07
	Notes:	
	1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):	
	- Category O - Open Class	
	- Flash rate 1Hz	
	- Synchronization	
	2. x indicates body colour. D=Detector White, P=Pure White	
	3. yy indicates customer and associated communication protocol.	
	01 indicates Advanced Protocol (and Honeywell 500 series protocol)	
	00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	
	4. Type A with Bcc deep back box, Type B with Wcc deep back box	
	5. Meets the requirements of EN54-3: 2001 at the following tones:	
	1) Alternating 525/440, 2Hz (100ms/400ms);	
	2) Alternating 800/922, 1Hz;	
	3) Alternating 800/922, 2Hz;	
	4) Alternating 2400/2900, 3Hz;	
	5) Alternating 2500/3100, 2Hz;	
	6) Alternating 988/645, 2Hz;	
	7) Continuous 630Hz;	
	8) Continuous 922Hz;	
	9) Continuous 1200Hz;	

10) Continuous 2810Hz;

11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) Intermittent 420Hz, 0.625s on, 0.625 sec off;

13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) Intermittent 630, 3.33Hz, 150ms on, 150ms off;

15) Intermittent 922, 0.8Hz 0.25s on, 1s off;

16) Intermittent 922, 0.5Hz 1s on, 1s off;

17) Intermittent 2810, 1Hz;

18) Intermittent 922, 1Hz 500ms on, 500ms off;

19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) Continuous 800Hz;

21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) Sweep 2400 - 2850, 7Hz;

24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on);

25) Sweep 800 - 970, 50Hz;

26) Sweep 800 - 970, 7Hz;

27) Sweep 800 - 970, 1Hz;

28) Sweep 2400 - 2850, 50Hz;

29) Sweep 500 - 1000, 7Hz;

30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) Sweep 800 - 1000, 2Hz;

32) Sweep 2400 - 2850, 1Hz

DSS-xC-Nyy	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base)	567ay/08

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):

- Category O - Open Class

- Flash rate 1Hz

- Synchronization

2. x indicates body colour, D=Detector White, P=Pure White

3. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Certificate No: 567az-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
WRA-PC-Ixx	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5)	567az/01

- Low Performance setting - (Category O-2.4-3)

- Synchronization

- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WRA-RC-Ixx	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Red Body (B501AP)	567az/02

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low red output

- Medium red output

- High red output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the

following light pattern details:

- High Performance setting - (Category W-4.2-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WWA-PC-Ixx	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Pure White Body (B501AP)	567az/03

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low white output

- Medium white output

- High white output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4-11.5/W-2.4-11.5)

- Medium Performance setting - (Category W-3.8-9/W-2.4-9)

- Low Performance setting - (Category O-2.4-3)

- Synchronization

- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low white output
- Medium white output
- High white output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.8-9/W-2.4-9)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Certificate No: 567z-(cl-3) to EN 54-3: 2014 + A1: 2019 and EN 54-17: 2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
WSO-xx-Iyy	WSO-xx-Iyy 567z/09 Analogue addressableType A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	567z/09
WSS-xx-Iyy	Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:	567z/10

	1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	
BSO-xx-Iyy	Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body colour. PP=Pure White, DD=Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;	567z/11

	31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	
BSS-xx-Iyy	Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	567z/12

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

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Certificate No: 567aw-(cl-1) to EN 54-3: 2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
DBS1224B4W	Conventional Type A wall mounted sounder	567aw/01

	Note: Meets the requirements of EN54-3 for all tones and output levels at voltage ranges 10-14 VDC and 21-27 VDC	
DBS1224B4W-D	4 Tone Type A conventional ceiling mounting sounder, white *Note:* Meets the requirements of EN 54-3 at all output levels, and voltage ranges of 10-14 VDC and 19.5-28 VDC for the following tones: 1 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence 2 - 800Hz continuous 3 - 500Hz-1200Hz slow whoop 4 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence	567aw/02
CWSO-RR-YY	Conventional Sounder Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box 2. RR indicates red body 3. YY indicates mounting option. Where S1 = shallow base (standard fix) Where S2 = shallow base (first fix) Where W1 = deep back box (standard fix) Where W2 = deep back box (first fix) 4. Meets the requirements of EN54-3 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz;	567aw/03

	26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	
CWSO-WW-YY	Conventional Sounder Notes: 1. Type A with CSW shallow back box, Type B with CWW deep back box 2. WW indicates white body 3. YY indicates mounting option. Where S1 = shallow base (standard fix) Where S2 = shallow base (first fix) Where W1 = deep back box (standard fix) Where W2 = deep back box (first fix) 4. Meets the requirements of EN54-3 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz;	567aw/04

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz;

CWSS-RA-YY	Conventional Sounder Beacon	567aw/05

Notes:

1. Type A with CSR shallow back box, Type B with CWR deep back box

2. The beacon function is not included in the scope of the approval

3. RA indicates red body / amber lens + red LED

4. YY indicates mounting option.

Where S7 = shallow base (standard fix)

Where S8 = shallow base (first fix)

Where W7 = deep back box (standard fix)

Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz;

CWSS-WA-YY	Conventional Sounder Beacon	567aw/06

Notes:

1. Type A with CSW shallow back box, Type B with CWW deep back box

2. The beacon function is not included in the scope of the approval

3. WA indicates white body / amber lens + red LED

4. YY indicates mounting option.

Where S7 = shallow base (standard fix)

Where S8 = shallow base (first fix)

Where W7 = deep back box (standard fix)

Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz;

CWSS-RB-YY	Conventional Sounder Beacon	567aw/07

Notes:

1. Type A with CSR shallow back box, Type B with CWR deep back box

2. The beacon function is not included in the scope of the approval

3. RB indicates red body / red lens + red LED

4. YY indicates mounting option.

Where S7 = shallow base (standard fix)

Where S8 = shallow base (first fix)

Where W7 = deep back box (standard fix)

Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz;

CWSS-WB-YY	Conventional Sounder Beacon	567aw/08

Notes:

1. Type A with CSW shallow back box, Type B with CWW deep back box

2. The beacon function is not included in the scope of the approval

3. WB indicates white body / red lens + red LED

4. YY indicates mounting option.

Where S7 = shallow base (standard fix)

Where S8 = shallow base (first fix)

Where W7 = deep back box (standard fix)

Where W8 = deep back box (first fix)

4. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz;

Bases:

B501AP Mounting base - Low profile base IP21C

Bcc Deep Back Box

Wcc Waterproof Deep Back Box IP33C

CSW 19mm shallow back box - white IP21C

CSR 19mm shallow back box - red IP21C

CWW 45mm deep back box - white IP33C

CWR 45mm deep back box - red IP33C

Certificate No: 567ax-(cl-1) to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
CWST-WW-YY	Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details): - Category W: W-2.4-9 - Category C: C-3-9.5, C-6-9.5, C-9-9.5 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WW indicates white body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/01
CWST-RR-YY	Conventional beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details): - Category W: W-2.4-6.7 - Category C: C-3-9.4, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RR indicates red body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/02

CWST-WR-YY	Conventional beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details): - Category W: W-2.4-6.2 - Category C: C-3-9.4, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WR indicates white body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/03
CWST-RW-YY	Conventional beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details): - Category W: W-2.4-9 - Category C: C-3-9.5, C-6-9.5, C-9-9.5 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RW indicates red body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/04

Bases

B501AP Mounting base - Low profile base IP21C

Bcc Deep Back Box

Wcc Waterproof Deep Back Box IP33C

CSW 19mm shallow back box - white IP21C

CSR 19mm shallow back box - red IP21C

CWW 45mm deep back box - white IP33C

CWR 45mm deep back box - red IP33C

Certificate No: 567ay-(cl-1) to EN 54-3: 2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No

CWSS-WW-YY	Conventional sounder beacon	567ay/01

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details):

- Category W: W-2.4-8.9,

- Category C: C-3-10, C-6-10

- Flash rate 0.5Hz

- Synchronization

2. Type A with CSW shallow back box, Type B with CWW deep back box

3. WW indicates white body / white LED

4. YY indicates mounting option.

Where S5 = shallow back box (standard fix)

Where S6 = shallow back box (first fix)

Where W5 = deep back box (standard fix)

Where W6 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

CWSS-RR-YY	Conventional sounder beacon	567ay/02

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details):

- Category W: W-2.4-6.8

- Category C: C-3-8.9, C-6-8.2

- Flash rate 0.5Hz

- Synchronization

2. Type A with CSR shallow back box, Type B with CWR deep back box

3. RR indicates red body / red LED

4. YY indicates mounting option.

Where S5 = shallow back box (standard fix)

Where S6 = shallow back box (first fix)

Where W5 = deep back box (standard fix)

Where W6 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

CWSS-WR-YY	Conventional sounder beacon	567ay/03

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details):

- Category W: W-2.4-6

- Category C: C-3-8.9, C-6-8.2

- Flash rate 0.5Hz

- Synchronization

2. Type A with CSW shallow back box, Type B with CWW deep back box

3. WR indicates white body / red LED

4. YY indicates mounting option.

Where S5 = shallow back box (standard fix)

Where S6 = shallow back box (first fix)

Where W5 = deep back box (standard fix)

Where W6 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

CWSS-RW-YY | Conventional sounder beacon | 567ay/04

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following categories (light pattern details):

- Category W: W-2.4-8.9

- Category C: C-3-10, C-6-10

- Flash rate 0.5Hz

- Synchronization

2. Type A with CSR shallow back box, Type B with CWR deep back box

3. RW indicates red body / white LED

4. YY indicates mounting option.

Where S5 = shallow back box (standard fix)

Where S6 = shallow back box (first fix)

Where W5 = deep back box (standard fix)

Where W6 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

CWSS-WR-ZZ — Conventional sounder beacon — 567ay/05

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following category (light pattern details):

- Category O: Open class only (Refer to installation manual)

- Flash rate 0.5Hz

- Synchronization

2. Type A with CSW shallow back box, Type B with CWW deep back box

3. WR indicates white body / red LED

4. ZZ indicates mounting option.

Where S3 = shallow back box (standard fix)

Where S4 = shallow back box (first fix)

Where W3 = deep back box (standard fix)

Where W4 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

CWSS-RR-ZZ	Conventional sounder beacon	567ay/06

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23 for the following category (light pattern details):

- Category O: Open class only (Refer to installation manual)

- Flash rate 0.5Hz

- Synchronization

2. Type A with CSR shallow back box, Type B with CWR deep back box

3. RR indicates red body / red LED

4. ZZ indicates mounting option.

Where S3 = shallow back box (standard fix)

Where S4 = shallow back box (first fix)

Where W3 = deep back box (standard fix)

Where W4 = deep back box (first fix)

5. Meets the requirements of EN54-3 for the following tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

Bases

B501AP Mounting base - Low profile base IP21C

Bcc Deep Back Box

Wcc Waterproof Deep Back Box IP33C

CSW 19mm shallow back box - white IP21C

CSR 19mm shallow back box - red IP21C

CWW 45mm deep back box - white IP33C

CWR 45mm deep back box - red IP33C

Horing LIH Industrial Co Ltd

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Certificate No: 506e to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
AH-0218	Conventional Type A Fire Alarm Bell	506e/01

AH-03127S	Conventional Type B Electronic Sounder (AH-03127MB Base) **Note:** Meets the requirements of EN 54-3 at the following tones: 1-Alternating Tones 800/970Hz at 2Hz 2-Sweeping 800/970Hz at 7Hz	506e/02
AH-03127-BS	Conventional Type B Electronic Sounder Beacon (AH-03127MB Base) **Notes:** 1. Meets the requirements of EN 54-3 at the following tones: 1-Alternating Tones 800/970Hz at 2Hz 2-Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Base:

AH-03127MB

Hosiden Besson Limited

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Certificate No: 539c to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
Banshee Excel	Banshee Excel Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/01
Banshee Excel Bi-Polar	Banshee Excel Audible Warning Device Notes: 1. Approved to Type A Indoor only with Shallow Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/02
Banshee Excel Lite	Banshee Excel Lite Xenon Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base	539c/03

	2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	
LED Banshee Excel Lite	Banshee Excel Lite LED Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/04

Bases:

Shallow base (various colour options)

Deep base (various colour options)

Hyfire Wireless Fire Solutions Limited

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Certificate No: 928ah-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
HFC-WSR-03+ HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with HFI-SIM-01	928ah/01
HFC-WSW-03+ HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928ah/01

2.Device is only addressable when used in conjunction with HFI-SIM-01

Ancillaries
HFI-SIM-01 Addressable module with short circuit isolator

Certificate No: 928w-(cl-2) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
HFI-ABS-05	Altair Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	928w/05
HFI-ABSB-05	Altair Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	928w/06
HFC-WSR-03	Conventional Type A/B (indoor/outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
HFC-WSW-03	Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07

Ancillaries
HFI-SIM-01 Addressable module with short circuit isolator

Certificate No: 928y-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
HFC-SBR-23-03	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01
HFC-SBW-23-03	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01

Ancillaries
HFI-SIM-01 Addressable module with short circuit isolator

Certificate No: 928z-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
HFC-SBR-23-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization	928z/01

	3. Device is only addressable when used in conjunction with HFI-SIM-01	
HFC-SBW-23-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with HFI-SIM-01	928z/01

Ancillaries

HFI-SIM-01	Addressable module with short circuit isolator

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Certificate No: 164h-(cl-3) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
KS-BSND	Intelligent Analogue Addressable Type A Base Sounder - White Version (KS-BASE-3T base) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones: 1 - 925 Hz : 250 ms / 628 Hz : 250 ms 2 - 925 Hz Continuous 3 - 628 Hz Continuous 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 - 925 Hz : 150 ms / Off : 600 ms 7 - 670 Hz : 250 ms / 845 Hz : 370 ms 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms 10 - 970 Hz : 500 ms / Off : 500 ms 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz) 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz) 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz) 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz) 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz) 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)	164h/01

17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 - 800 Hz : 250 ms / 970 Hz : 250 ms

20 - 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

KS-WSND2-RED	Intelligent Analogue Addressable Type A Wall Sounder (KS-BASE-3T-SCI, KS-BASE-WS-RED bases)	164h/02

Note:

1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones:

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

	50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms	
	51 - Whoop 500-1200 3500 ms / Off 500 ms	
KS-BSND2	Intelligent Analogue Addressable Type A Base Sounder - White Version (KS BASE-4T base)	164h/06
	Note:	
	1. Meets the requirements of EN 54-3 for all 56 tones	
	Approved Tones	
	1 925 Hz : 250 ms / 628 Hz : 250 ms	
	2 925 Hz Continuous	
	3 628 Hz Continuous	
	4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms	
	5 (Swedish) 660 Hz : 150 ms / Off : 150 ms	
	6 925 Hz : 150 ms / Off : 600 ms	
	7 670 Hz : 250 ms / 845 Hz : 370 ms	
	8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms	
	9 1200 Hz : 500 ms / 500 Hz : 500 ms	
	10 970 Hz : 500 ms / Off : 500 ms	
	11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)	
	12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)	
	13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)	
	14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)	
	15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)	
	16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)	
	17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms	
	18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms	
	19 800 Hz : 250 ms / 970 Hz : 250 ms	
	20 2850 Hz Continuous	
	21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms	
	22 - 800 Hz : 500 ms / 970 Hz : 500 ms	
	23 - 2850 Hz : 500 ms / Off : 500 ms	
	24 - 925 Hz : 250 ms / Off : 1000 ms	
	25 - 970 Hz Continuous	
	26 - 660 Hz : 1800 ms / Off: 1800 ms	
	27 - 660 Hz : 6500 ms / Off : 13000 ms	
	28 - 660 Hz Continuous	
	29 - 554 Hz : 500 ms / 440 Hz : 500 ms	
	30 - 660 Hz : 500 ms / Off : 500 ms	
	31 - 2850 Hz : 150 ms / Off : 100 ms	
	32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)	
	33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)	
	34 - 988 Hz : 250 ms / 645 Hz : 250 ms	
	35 - 510 Hz : 250 ms / 610 Hz : 250 ms	
	36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)	
	37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)	
	38 - 845 Hz Continuous	

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)

54 - Whoop 1200 Hz 500 Hz : 1000ms

55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.

56 - 725 Hz Continuous

Bases

KS-BASE-3T Standard Base

KS-BASE-3T-SCI Short Circuit Isolator Base

KS-BASE-WS-RED Standard Base

KS BASE-4T Standard Base

Certificate No: 164s-(cl-1) to EN 54-23: 2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
KS-CBEACON-WL-15M	Addressable Ceiling VAD (White Body, White LED) (KS-BASE-3T-SCI, KS-BASE-3T, KS-BSNDB2-RL, KS-BSNDB2-WL, KS-BSND Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4 - LOL 2 - Flash rate 0.5Hz	164s/02

- Synchronization

4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance O-1.54-5.3, O-1.7-5
- LOL 0
- Flash rate 1Hz
- Synchronization

5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance C-3-1.5, O-2.6-8
- LOL 1
- Flash rate 1Hz

Synchronization

6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27
- LOL 2
- Flash rate 1Hz
- Synchronization

7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit

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KS-CBEACON-WL

Addressable Type A Ceiling VAD (White Body, White LED) (KS-BASE-3T-SCI, KS-BASE-3T, KS-BSNDB2-RL, KS-BSNDB2-WL, KS-BSND Bases) 164s/04

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance C–3 –6.5, O-1.18-7.1, O-3.26–3.76
- LOL 0
- Flash rate 0.5Hz
- Synchronization

2. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9
- LOL 1
- Flash rate 0.5Hz
- Synchronization

3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42
- LOL 2
- Flash rate 0.5Hz
- Synchronization

4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category:

- Light Coverage Distance O-2.2-5.2
- LOL 0
- Flash rate 1Hz
- Synchronization

5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories:

- Light Coverage Distance O-2.4-5.9, O-2.75-5.1
- LOL 1
- Flash rate 1Hz

	- Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6 - LOL 2 - Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
KS-CBEACON-RL	Addressable Type A Ceiling VAD (White Body, Red LED) (KS-BASE-3T-SCI, KS-BASE-3T, KS-BSNDB2-RL, KS-BSNDB2-WL, KS-BSND Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The ceiling mounted VAD meets the requirements of EN 54-23 for the following category: - Light Coverage Distance O-2.05-3.8 - LOL 0 - Flash rate 1Hz - Synchronization 5. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3 - LOL 1 - Flash rate 1Hz - Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23 for the following categories: - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6 - LOL 2 - Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/06
KS-WBEACON-WL	Intelligent Analogue Addressable Type A Wall VAD (White Body, White LED) (KS-BASE-3T-SCI, KS-BASE-3T, KS-BSNDB2-RL, KS-BSNDB2-WL, KS-BSND Bases)	164s/11

Notes:

1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-5
   - LOL 0
   - Flash rate 0.5Hz
   - Synchronization
2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-5.5
   - LOL 1
   - Flash rate 0.5Hz
   - Synchronization
3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-7
   - LOL 2
   - Flash rate 0.5Hz
   - Synchronization
4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-1
   - LOL 1
   - Flash rate 1Hz
   - Synchronization
5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-5.5
   - LOL 2
   - Flash rate 1Hz
   - Synchronization
6. The Default factory setting is LOL 1, 0.5Hz
7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit

KS-WBEACON-RL	Intelligent Analogue Addressable Type A Wall VAD (White Body, Red LED (KS-BASE-3T-SCI, KS-BASE-3T, KS-BSNDB2-RL, KS-BSNDB2-WL, KS-BSND Bases)	164s/14

Notes:

1. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance O-2-3*
   * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)
   - LOL 0
   - Flash rate 0.5Hz
   - Synchronization
2. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-5
   - LOL 1
   - Flash rate 0.5Hz
   - Synchronization
3. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-5.5
   - LOL 2
   - Flash rate 0.5Hz
   - Synchronization
4. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.7-1.07
   - LOL 1
   - Flash rate 1Hz
   - Synchronization

5. The Wall mounted VAD meets the requirements of EN 54-23 for the following categories:
   - Light Coverage Distance W-2.4-4
   - LOL 2
   - Flash rate 1Hz
   - Synchronization

6. The Default factory setting is LOL 1, 0.5Hz

7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit

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KS-BASE-3T-SCI	Short circuit isolator base
3T	Standard base
32-RL	Base sounder beacon
32-WL	Base sounder beacon
	Base sounder

WS2-WPK	Waterproofing kit

Certificate No: 164t-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
KS-WSNDB2-RL-RED	Addressable Type A/B Wall Sounder (Red LED) Beacon (KS-BASE-WS-RED, KS-BASE-WS-RED-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit Approved Tones: 1 - 925 Hz : 250 ms / 628 Hz : 250 ms 2 - 925 Hz Continuous 3 - 628 Hz Continuous 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 - 925 Hz : 150 ms / Off : 600 ms 7 - 670 Hz : 250 ms / 845 Hz : 370 ms 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms 10 - 970 Hz : 500 ms / Off : 500 ms 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz) 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz) 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz) 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz) 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz) 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz) 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms 19 - 800 Hz : 250 ms / 970 Hz : 250 ms	164t/02

20 - 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

KS-BSNDB2-RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon (KS-BASE-3T and KS-BASE-3T-SCI bases)	164t/08

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following:

- Category 0

- Flash rate 0.5Hz

- Synchronization

2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones:

1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

	48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms 51 - Whoop 500-1200 3500 ms / Off 500 ms	
KS-WSNDB2-WL-RED	Addressable Type A/B Wall Sounder (White LED) Beacon (KS-BASE-WS-RED, KS-BASE-WS-RED-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/01
KS-BSNDB2-WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (KS-BASE-3T and KS-BASE-3T-SCI bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/07

Approved Tones
1 - 925 Hz : 250 ms / 628 Hz : 250 ms
Continuous
Continuous
) 554 Hz : 100 ms / 440 Hz : 400 ms
sh) 660 Hz : 150 ms / Off : 150 ms
: 150 ms / Off : 600 ms
7 - 670 Hz : 250 ms / 845 Hz : 370 ms
500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
z : 500 ms / 500 Hz : 500 ms
z : 500 ms / Off : 500 ms
) 800 Hz - 970 Hz over 140 ms (7 Hz)
) 800 Hz - 970 Hz over 1000 ms (1 Hz)
) 800 Hz - 970 Hz over 20 ms (50 Hz)
) 2400 Hz - 2850 Hz over 140 ms (7 Hz)
) 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
) 300 Hz - 1200 Hz over 1000 ms (1 Hz)
01 : 970 Hz : 500 ms / Off : 500 ms
01 : 2850 Hz : 500 ms / Off : 500 ms
z : 250 ms / 970 Hz : 250 ms
Hz Continuous
Hz : 250 ms / 2850 Hz : 250 ms
z : 500 ms / 970 Hz : 500 ms
Hz : 500 ms / Off : 500 ms
z : 250 ms / Off : 1000 ms
z Continuous
z : 1800 ms / Off: 1800 ms
z : 6500 ms / Off : 13000 ms
z Continuous
z : 500 ms / 440 Hz : 500 ms
z : 500 ms / Off : 500 ms
Hz : 150 ms / Off : 100 ms
) 2400 Hz - 2850 Hz over 20 ms (50 Hz)
) 800 Hz - 970 Hz over 500 ms (2 Hz)
z : 250 ms / 645 Hz : 250 ms
z : 250 ms / 610 Hz : 250 ms
) 800 Hz - 970 Hz over 110 ms (9 Hz)
) 800 Hz - 970 Hz over 330 ms (3 Hz)
z Continuous

z : 1000 ms / Off : 1000 ms
z : 150 ms / 970 Hz : 150 ms
) 2400 Hz - 2850 Hz over 110 ms (9 Hz)
) 2400 Hz - 2850 Hz over 330 ms (3 Hz)
-Iz : 1000 ms / Off : 1000 ms
-Iz : 150 ms / 2850 Hz : 150 ms
an) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
z : 600 ms / Off : 600 ms
) 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
01 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
01 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
01 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
) 500-1200 3500 ms / Off 500 ms

Bases

KS-BASE-WS-RED	Standard Base
KS-BASE-WS-RED-SCI	Short Circuit Isolator Base
KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base

Accessories

WS2-WPK	Weatherproofing kit

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk, IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450a-(cl-4) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
KET-BS-300	Sounder Base Type A Notes: Meets the requirements of EN 54-3: for the following tones Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s) Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)	1450a/02
KET-SF-260	Addressable Sounder Strobe Type A Notes: Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174c-(cl-7) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
KM-FC5200	Conventional Type A Sounder Strobe (KM-FC5101 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones:	1174c/01

	1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	
KM-FA6200	Addressable Type A Indoor Digital Sounder Beacon (KM-FA6101 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval **Bases** KM-FC5201 Base KM-FA6201 Digital Sounder Base	1174c/02

Bases

KM-FC5201 Base

KM-FA6201 Digital Sounder Base

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Tel: +43 1 52114-44
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Certificate No: 546a-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-3:2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
200/FBRI/SOUW	Conventional indoor Type A sounder base **Notes:** 1. Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (Cranford sweep) (800-1000Hz @ 0.5 Sec) 3 - Alternative Warble (800-1000Hz @ 0.5 Sec) 11 - Dutch Sweep Tone (970Hz Cont) 25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) 27- French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) 3. Cover plate (Part No. 116-099) must be used.	546a/04

Ancillaries

FI750/M/SST Addressable module with short circuit isolator

Certificate No: 928ah-(cl-4) to EN 54-3:2014+A1:2019, EN 54-17:2005, EN 54-18:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS/SOUR + FI750/M/SST	Altair Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator	928ah/01

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:

Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms

Tone 2 Continuous Tone, 970Hz

Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms

Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)

2.Device is only addressable when used in conjunction with FI750/M/SST

Ancillaries
FI750/M/SSTAddressable module with short circuit isolator

Certificate No: 928w-(cl-4) to EN 54-3:2014+A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS/SOUR	Conventional Type A (indoor) Wall Sounder	928w/07
	Notes:	
	1. Meets the requirements of EN 54-3 at the following tone settings:	
	Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms	
	Tone 2 Continuous Tone, 970Hz	
	Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms	
	Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	

Certificate No: 928y-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS/SOUR/STRC	Conventional Type A (indoor) Wall Sounder and Visual Alarm Device	928y/01
	Notes:	
	1. Meets the requirements of EN 54-3 at the following tone settings:	
	Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms	
	Tone 2 Continuous Tone, 970Hz	
	Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms	
	Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	
	2. The wall mounted VAD meets the requirements of EN 54-23 for the following:	
	- Category W-2.5-7	
	- Flash rate - 0.5Hz	
	- Synchronization	

Certificate No: 928z-(cl-4) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
CWS/SOUR/STRC + FI750/M/SST	Altair Addressable Type A (indoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator	928z/01
	Notes:	
	1. Meets the requirements of EN 54-3 at the following tone settings:	
	Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms	

Tone 2 - Continuous Tone, 970Hz

Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms

Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)

2. The wall mounted VAD meets the requirements of EN 54-23 for the following:

- Category W-2.5-7

- Flash rate - 0.5Hz

- Synchronization

3. Device is only addressable when used in conjunction with FI750/M/SST

Ancillaries:
FI750/M/SST Addressable Module with Short Circuit Isolator

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton, WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330d-(cl-6) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
LF-X5300	Addressable Sounder Strobe (LF-X5300 Sounder Base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz - 2900 Hz @ 3Hz · Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off · Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/01
LF-X5302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz - 2900 Hz @ 3Hz · Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off · Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

LF-X5300 Sounder Base

Mavili Elektronik Ticaret Ve Sanayi A.S.

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Tel: +90 216 4664 505
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926q to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No

ML-2410	Maxlogic Type A Conventional Wall Sounder	926q/01

Note:

Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 800-970Hz

2 - Continuous 970Hz

3 - Sweep 800-970Hz, 1000ms On

4 - Pulse 970 Hz, 1s On / 1s Off

5 - Sweep 800-970Hz, 140ms On

6 - Pulse 660Hz, 150ms On / 150ms Off

7 - Intermittent Sweep 500-1200Hz, 3.5s On / 0.5s Off

8 - Sweep 1200-500Hz, 1000ms On

9 - Pulse 970Hz, 450-500ms On / 450-550ms Off

10 - Sweep 2400-2900Hz, 330ms On

11 - Alternating 554-440Hz, 100ms On - 400ms On

12 - Alternating 800-1000Hz, 500ms On - 500ms On

13 - Sweep 800-1000Hz, 500ms On

14 - Alternating 990-650Hz, 250ms On - 250ms On

15 - Pulse 2810Hz, 500ms On / 500ms Off

16 - Continuous 660Hz

17 - Pulse 420Hz, 625ms On / 625ms Off

18 - Sweep 800-970Hz, 20ms On

19 - Sweep 2400-2850Hz, 20ms On

20 - Sweep 2400-2850Hz, 140ms On

21 - Sweep 2400-2850Hz, 1000ms On

22 - Continuous 2850Hz

23 - Sweep 150-1000Hz, 10s On / 4s Off

24 - Sweep 500-1000Hz, 143ms On

25 - Sweep 500-1200Hz, 1000ms Off

26 - Sweep 500-1200Hz, 100ms Off

27 - Alternating 400-1200Hz, 500ms On, 500ms Off

28 - Pulse 800Hz, 1s On / 1s Off

29 - Alternating 840-558Hz, 500ms On

30 - Pulse 500Hz, 150ms On / 600ms On

31 - Alternating 510-610Hz, 250ms On - 250ms On

32 - Sweep 800-950Hz, 333ms On

ML-1410	Maxlogic Type A Analogue Addressable System Sounder	926q/02

Note:

1. Type A for Indoor Use only

2. Meets the requirements of EN 54-3 at the following tones:

1 Alternating 800-970Hz, 250 - 250ms On

2 Continuous 970Hz

3 Sweep 800-970Hz, 1000ms On

4 Pulse 970 Hz, 1000ms ON / 1000ms OFF

5 Sweep 800-970Hz, 180ms On

6 Pulse 660HZ, 160ms On / 160ms Off

7 Sweep 500-1200Hz, 2500ms On / 500ms Off

8 Sweep 1200-500Hz, 1000ms On

9 Pulse 970Hz, 450-550ms On, 450-550ms Off

10 Sweep 2400-2900Hz, 250ms On

11 Alternating 554-440Hz, 100ms On - 400ms On

12 Alternating 800-1000Hz, 500ms On - 500ms On

13 Sweep 800-1000Hz, 440ms On

14 Alternating 990-650Hz, 250ms On - 250ms On

15 Pulse 2810Hz, 500ms On / 500ms Off

16 Continuous 660Hz

17 Pulse 420Hz, 625ms On / 625ms Off

18 Continuous 1200Hz

19 Continuous 800Hz

20 Sweep 2400-2850Hz, 200ms On

21 Sweep 2400-2850Hz, 880ms On

22 Continuous 2850Hz

23 Sweep 150-1000Hz, 1100ms On / 4000ms Off

24 Sweep 500-1000Hz, 190ms On

25 Sweep 500-1200Hz, 1000ms On / 850ms Off

26 Sweep 500-1200Hz, 450ms On

27 Alternating 400-1200Hz, 486ms On / 480ms Off

28 Pulse 800Hz, 938ms On / 996ms Off

29 Alternating 840-558Hz, 480ms On - 490ms On

30 Pulse 500Hz, 580ms On / 144ms Off

31 Alternating 510-610Hz, 232ms On - 238ms On

32 Sweep 800-950Hz, 344ms On

ML-1101	Maxlogic Intelligent Addressable Loop Powered Base Sounder	926q/03

Notes:

1. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 800-970Hz

2 - Continuous 970Hz

3 - Pulse 660Hz, 150ms On / 150ms Off

4 - Sweep 500-1200Hz, 3500ms On / 500ms Off

5 - Sweep 1200-500Hz, 1000ms On

6 - Pulse 970Hz, 450-500ms On / 450-550ms Off

7 - Continuous 660Hz

8 - Continuous 2850Hz

2. Type A for Indoor Use only.

Certificate No: 926r to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No

ML-2420	Maxlogic Type A Conventional Wall Beacon Notes: 1) Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category W-2.8-8.0 - Flash Rate 1Hz	926r/01
ML-1420	Maxlogic Type A Analogue Addressable System Wall Strobe Notes: 1) Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926r/02
ML-1103	Maxlogic Intelligent Addressable Loop Powered Base Beacon Notes: 1) Type A for Indoor Use only. 2) Meets the requirements of EN 54-23 for the following: - Open Class: Coverage volume and shape as detailed in operation manual - Flash Rate: 0.5Hz - Operation voltage range: Loop Powered 18-33V DC	926r/03

Certificate No: 926s to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
ML-2430	Maxlogic Type A Conventional Wall Sounder and Beacon Notes: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Sweep 800-970Hz, 1000ms On 4 - Pulse 970 Hz, 1s On / 1s Off 5 - Sweep 800-970Hz, 140ms On 6 - Pulse 660Hz, 150ms On / 150ms Off 7 - Intermittent Sweep 500-1200Hz, 3.5s On / 0.5s Off 8 - Sweep 1200-500Hz, 1000ms On 9 - Pulse 970Hz, 450-500ms On / 450-550ms Off 10 - Sweep 2400-2900Hz, 330ms On 11 - Alternating 554-440Hz, 100ms On - 400ms On 12 - Alternating 800-1000Hz, 500ms On - 500ms On 13 - Sweep 800-1000Hz, 500ms On 14 - Alternating 990-650Hz, 250ms On - 250ms On 15 - Pulse 2810Hz, 500ms On / 500ms Off 16 - Continuous 660Hz 17 - Pulse 420Hz, 625ms On / 625ms Off	926s/01

18 - Sweep 800-970Hz, 20ms On

19 - Sweep 2400-2850Hz, 20ms On

20 - Sweep 2400-2850Hz, 140ms On

21 - Sweep 2400-2850Hz, 1000ms On

22 - Continuous 2850Hz

23 - Sweep 150-1000Hz, 10s On / 4s Off

24 - Sweep 500-1000Hz, 143ms On

25 - Sweep 500-1200Hz, 1000ms Off

26 - Sweep 500-1200Hz, 100ms Off

27 - Alternating 400-1200Hz, 500ms On, 500ms Off

28 - Pulse 800Hz, 1s On / 1s Off

29 - Alternating 840-558Hz, 500ms On

30 - Pulse 500Hz, 150ms On / 600ms On

31 - Alternating 510-610Hz, 250ms On - 250ms On

32 - Sweep 800-950Hz, 333ms On

3. Meets the requirements of EN 54-23 for the following:

- Category W-2.4-8.0

- Flash Rate 1Hz

ML-1430	Maxlogic Type A Analogue Addressable System Wall Sounder & Strobe	926s/02

Notes:

1. Type A for Indoor Use only

2. Meets the requirements of EN 54-3 at the following tones:

1 Alternating 800-970Hz, 250 - 250ms On

2 Continuous 970Hz

3 Sweep 800-970Hz, 1000ms On

4 Pulse 970 Hz, 1000ms ON / 1000ms OFF

5 Sweep 800-970Hz, 180ms On

6 Pulse 660HZ, 160ms On / 160ms Off

7 Sweep 500-1200Hz, 2500ms On / 500ms Off

8 Sweep 1200-500Hz, 1000ms On

9 Pulse 970Hz, 450-550ms On, 450-550ms Off

10 Sweep 2400-2900Hz, 250ms On

11 Alternating 554-440Hz, 100ms On - 400ms On

12 Alternating 800-1000Hz, 500ms On - 500ms On

13 Sweep 800-1000Hz, 440ms On

14 Alternating 990-650Hz, 250ms On - 250ms On

15 Pulse 2810Hz, 500ms On / 500ms Off

16 Continuous 660Hz

17 Pulse 420Hz, 625ms On / 625ms Off

18 Continuous 1200Hz

19 Continuous 800Hz

20 Sweep 2400-2850Hz, 200ms On

21 Sweep 2400-2850Hz, 880ms On

22 Continuous 2850Hz

	23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 30 Pulse 500Hz, 580ms On / 144ms Off 31 Alternating 510-610Hz, 232ms On - 238ms On 32 Sweep 800-950Hz, 344ms On 3. Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	
ML-1102	Maxlogic Intelligent Addressable Loop Powered Base Sounder Beacon Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Pulse 660Hz, 150ms On / 150ms Off 4 - Sweep 500-1200Hz, 3500ms On / 500ms Off 5 - Sweep 1200-500Hz, 1000ms On 6 - Pulse 970Hz, 450-500ms On / 450-550ms Off 7 - Continuous 660Hz 8 - Continuous 2850Hz 2. Type A for Indoor Use only. 3. Meets the requirements of EN 54-23 for the following: - Open Class: Coverage volume and shape as detailed in operation manual - Flash Rate: 0.5Hz - Operation voltage range: Loop Powered 18-33V DC	926s/03

Certificate No: 926t to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ML-1410.SCI	Maxlogic Type A Analogue Addressable System Sounder with Short Circuit Isolator Notes: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off	926t/01

7 Sweep 500-1200Hz, 2500ms On / 500ms Off

8 Sweep 1200-500Hz, 1000ms On

9 Pulse 970Hz, 450-550ms On, 450-550ms Off

10 Sweep 2400-2900Hz, 250ms On

11 Alternating 554-440Hz, 100ms On - 400ms On

12 Alternating 800-1000Hz, 500ms On - 500ms On

13 Sweep 800-1000Hz, 440ms On

14 Alternating 990-650Hz, 250ms On - 250ms On

15 Pulse 2810Hz, 500ms On / 500ms Off

16 Continuous 660Hz

17 Pulse 420Hz, 625ms On / 625ms Off

18 Continuous 1200Hz

19 Continuous 800Hz

20 Sweep 2400-2850Hz, 200ms On

21 Sweep 2400-2850Hz, 880ms On

22 Continuous 2850Hz

23 Sweep 150-1000Hz, 1100ms On / 4000ms Off

24 Sweep 500-1000Hz, 190ms On

25 Sweep 500-1200Hz, 1000ms On / 850ms Off

26 Sweep 500-1200Hz, 450ms On

27 Alternating 400-1200Hz, 486ms On / 480ms Off

28 Pulse 800Hz, 938ms On / 996ms Off

29 Alternating 840-558Hz, 480ms On - 490ms On

30 Pulse 500Hz, 580ms On / 144ms Off

31 Alternating 510-610Hz, 232ms On - 238ms On

32 Sweep 800-950Hz, 344ms On

Certificate No: 926u to EN 54-23:2010, EN 54-17:2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
ML-1420.SCI	Maxlogic Type A Analogue Addressable System Wall Strobe with Short Circuit Isolator	926u/01
	Notes:	
	1. Type A for Indoor Use only	
	2) Meets the requirements of EN 54-23 for the following:	
	- Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0)	
	- Flash Rate 0.5Hz	

Certificate No: 926v to EN 54-3:2014 + A1:2019, EN 54-23:2010, EN 54-17:2005

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
ML-1430.SCI	Maxlogic Type A Analogue Addressable System Wall Sounder & Strobe with Short Circuit Isolator	926v/01
	Notes:	
	1. Type A for Indoor Use only	
	2. Meets the requirements of EN 54-3 at the following tones:	

1 Alternating 800-970Hz, 250 - 250ms On

2 Continuous 970Hz

3 Sweep 800-970Hz, 1000ms On

4 Pulse 970 Hz, 1000ms ON / 1000ms OFF

5 Sweep 800-970Hz, 180ms On

6 Pulse 660HZ, 160ms On / 160ms Off

7 Sweep 500-1200Hz, 2500ms On / 500ms Off

8 Sweep 1200-500Hz, 1000ms On

9 Pulse 970Hz, 450-550ms On, 450-550ms Off

10 Sweep 2400-2900Hz, 250ms On

11 Alternating 554-440Hz, 100ms On - 400ms On

12 Alternating 800-1000Hz, 500ms On - 500ms On

13 Sweep 800-1000Hz, 440ms On

14 Alternating 990-650Hz, 250ms On - 250ms On

15 Pulse 2810Hz, 500ms On / 500ms Off

16 Continuous 660Hz

17 Pulse 420Hz, 625ms On / 625ms Off

18 Continuous 1200Hz

19 Continuous 800Hz

20 Sweep 2400-2850Hz, 200ms On

21 Sweep 2400-2850Hz, 880ms On

22 Continuous 2850Hz

23 Sweep 150-1000Hz, 1100ms On / 4000ms Off

24 Sweep 500-1000Hz, 190ms On

25 Sweep 500-1200Hz, 1000ms On / 850ms Off

26 Sweep 500-1200Hz, 450ms On

27 Alternating 400-1200Hz, 486ms On / 480ms Off

28 Pulse 800Hz, 938ms On / 996ms Off

29 Alternating 840-558Hz, 480ms On - 490ms On

30 Pulse 500Hz, 580ms On / 144ms Off

31 Alternating 510-610Hz, 232ms On - 238ms On

32 Sweep 800-950Hz, 344ms On

3. Meets the requirements of EN 54-23 for the following:

- Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0)

- Flash Rate 0.5Hz

Moflash Signalling Ltd.

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Tel: 01214405894
E-mail: engineering@moflash.co.uk • Website: https://www.moflash.co.uk/

Certificate No: 1448a to EN 54-3: 2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No

IS-S-02	Intrinsically Safe Fire Alarm Sounder Type B (Red) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404)	1448a/01
IS-S-02WH	Intrinsically Safe Fire Alarm Sounder Type B (White) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404)	1448a/01
IS-SB-02-XX	Intrinsically Safe Fire Alarm Sounder Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404) 2. XX indicates Beacon colour: 01 - Amber 02 - Red 03 - Blue 04 - Green 05 - White 3. The beacon function is not included within the scope of this approval.	1448a/02
IS-SB-02-XXWH	Intrinsically Safe Fire Alarm Sounder Beacon Type B (White) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404) 2. XX indicates Beacon colour:	1448a/02

01 - Amber

02 - Red

03 - Blue

04 - Green

05 - White

3. The beacon function is not included within the scope of this approval.

Bases:

HSG6890SA Time Saver Base

Morley-IAS by Honeywell, Pittway Tecnologica Srl

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Certificate No: 567ag-(cl-4) to EN 54-3:2014 + A1:2019 & EN 54-17:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
MI-WSS-PC-I	Analogue addressable wall mounted sounder / LED strobe with short circuit isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz;	567ag/21

18) Intermittent 922, 1Hz 500ms on, 500ms off;

19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) Continuous 800Hz;

21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) Sweep 2400 - 2850, 7Hz;

24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on);

25) Sweep 800 - 970, 50Hz;

26) Sweep 800 - 970, 7Hz;

27) Sweep 800 - 970, 1Hz;

28) Sweep 2400 - 2850, 50Hz;

29) Sweep 500 - 1000, 7Hz;

30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) Sweep 800 - 1000, 2Hz;

32) Sweep 2400 - 2850, 1Hz

MI-DSS-PC-I	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and Honeywell 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;	567ag/22

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz.

MI-BRH-xC-I — Addressable Type A Detector Base Sounder Strobe — 567ag/23

Notes:

1. x indicates body colour. D = Detector White, P=Pure White

2. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,

Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

Hold 1200Hz for 4s

Falling from 1200Hz to 500Hz in 1s

Tone 31 - Sweep 800-1000Hz for 2Hz

Tone 32 - Sweep 2400-2850Hz for 1Hz

3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings High C-3-15, Low C-3-11 & O-1-4

- Synchronization

- Flash rate 0.5Hz & 1Hz

- Red LED

- Clear lens

MI-BRS-xC-I | Addressable Type A Detector Base Sounder Strobe | 567ag/24

Notes:

1. x indicates body colour. D = Detector White, P=Pure White

2. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,

Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz

to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

Hold 1200Hz for 4s

Falling from 1200Hz to 500Hz in 1s

Tone 31 - Sweep 800-1000Hz for 2Hz

Tone 32 - Sweep 2400-2850Hz for 1Hz

3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings C-3-8.5 & O-1-3

- Synchronization

- Flash rate 0.5Hz & 1Hz

- Red LED

- Clear lens

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Certificate No: 567ah-(cl-4) to EN 54-17:2005 & EN 54-23:2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
MI-WST-PC-I	Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base)	567ah/05
	Notes:	

	1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box	
MI-BGL-xC-I	Addressable Type A Detector Base Strobe Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens 2. x indicates body colour. D=Detector White, P=Pure White	567ah/07
WRL-PC-I05	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/08
WRL-RC-I05	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/09
WWL-PC-I05	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/10
WWL-RC-I05	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED	567ah/11

- Clear lens

Bases

B501AP-cc Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Certificate No: 567aw-(cl-3) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
MI-WSO-xx-N	Analogue addressable Type A/B wall mounted sounder (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	567aw/09
MI-WSS-xx-N	Analogue addressable Type A/B wall mounted sounder/strobe (B501AP-cc, Bcc, and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol)	567aw/10

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:

1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;

4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;

7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Certification excludes the strobe function.

5. Approved as Type B only when used with Wcc base.

MI-BSO-xx-N — Analogue addressable Type A integrated detector base sounder — 567aw/11

(B501AP-cc, Bcc and Wcc bases)

Notes:

1. xx indicates body colour. PP=Pure White, DD=Detector White

2. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:

1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;

4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;

7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

MI-BSS-xx-N	Analogue addressable Type A integrated detector base sounder/strobe (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	567aw/12

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Certificate No: 567ax-(cl-3) to EN 54-23:2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
MI-VAD-WC-N	Analogue Addressable High Output Beacon (B501AP base) Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category C: C-3-5.1, C-6-5.1, C-9-5.1 - Category W: W-2.4-2.76 - Flash rate 0.5Hz - Synchronization 2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW	567ax/06
MI-WST-PC-N	Analogue addressable wall mounted LED strobe (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box	567ax/05

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Certificate No: 567ay-(cl-3) to EN 54-3:2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
MI-WSS-PC-N	Analogue Addressable Wall Mounted Sounder / LED Strobe (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz;	567ay/07

7) Continuous 630Hz;

8) Continuous 922Hz;

9) Continuous 1200Hz;

10) Continuous 2810Hz;

11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then

repeating;

12) Intermittent 420Hz, 0.625s on, 0.625 sec off;

13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) Intermittent 630, 3.33Hz, 150ms on, 150ms off;

15) Intermittent 922, 0.8Hz 0.25s on, 1s off;

16) Intermittent 922, 0.5Hz 1s on, 1s off;

17) Intermittent 2810, 1Hz;

18) Intermittent 922, 1Hz 500ms on, 500ms off;

19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) Continuous 800Hz;

21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) Sweep 2400 - 2850, 7Hz;

24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on);

25) Sweep 800 - 970, 50Hz;

26) Sweep 800 - 970, 7Hz;

27) Sweep 800 - 970, 1Hz;

28) Sweep 2400 - 2850, 50Hz;

29) Sweep 500 - 1000, 7Hz;

30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) Sweep 800 - 1000, 2Hz;

32) Sweep 2400 - 2850, 1Hz

MI-DSS-PC-N	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base)	567ay/08

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):

- Category O - Open Class

- Flash rate 1Hz

- Synchronization

2. PC=Pure White/Clear indicates body/lens colour.

3. Advanced Protocol (and Honeywell 500 series protocol)

4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz.

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Certificate No: 567az-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
WRA-PC-I05	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:	567az/01

- High Performance setting - (Category W-4.2-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WRA-RC-I05	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Red Body (B501AP)	567az/02

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low red output
- Medium red output

- High red output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4.2-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low white output
- Medium white output
- High white output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.8-9/W-2.4-9)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WWA-RC-I05	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Red Body (B501AP)	567az/04

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low white output
- Medium white output
- High white output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.8-9/W-2.4-9)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Certificate No: 567z-(cl-4) to EN 54-3: 2014 + A1: 2019 and EN 54-17: 2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
MI-WSO-xx-I	Analogue addressable Type A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	567z/09
MI-WSS-xx-I	Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)	567z/10

Notes:

1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear

2. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;

4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;

7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Certification excludes the strobe function.

5. Approved as Type B only when used with Wcc base.

MI-BSO-xx-I — Analogue addressable Type A integrated detector base sounder with short circuit isolator — 567z/11

(B501AP-cc, Bcc and Wcc bases)

Notes:

1. xx indicates body colour. PP=Pure White, DD=Detector White

2. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;

4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;

7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;

	18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	
MI-BSS-xx-I	Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	567z/12

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

B501AP Mounting Base - Low Profile Base IP21C

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore, 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330d-(cl-3) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
MX300	Addressable Sounder Strobe (MX300 Base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz 2900 Hz @ 3Hz · Tone 16, 500Hz 1200Hz, 3.5s on/0.25s off · Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	1330d/01
MX302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz - 2900 Hz @ 3Hz · Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off · Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

Base:

MX300 Sounder Base

NH Fire (Shenzhen) Co., Ltd

Zaoan Business Centre,, No. 5 in Shiling Industrial Park, Nanshan District, Shenzhen, 518000, China
Tel: 86-755-2818-4905

Certificate No: 1529b-(cl-1) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CAV141024	Intelligent Type A Sounder/Beacon Device Notes: 1. Meets the requirements of EN 54-3 at the following tones: (i). Alternating 800/970 Hz, 500ms each tone	1529b/01

	2. The beacon functionality is not included within the scope of this approval	
AAV142024	Intelligent Type A Sounder/Beacon Device Notes: 1. Meets the requirements of EN 54-3 at the following tones: (i). Alternating 800/970 Hz, 500ms each tone 2. The beacon functionality is not included within the scope of this approval	1529b/01

Base:
Integrated mounting back box with latch

Certificate No: 506e-(cl-11) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CA1430260	Conventional Type A Fire Alarm Bell	506e/01
CS1430240	Conventional Type B Electronic Sounder (AH-03127MB Base) Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 – Alternating Tones 800/970Hz at 2Hz 2 – Sweeping 800/970Hz at 7Hz	506e/02
CS1430250	Conventional Type B Electronic Sounder Beacon Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 – Alternating Tones 800/970Hz at 2Hz 2 – Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Product Extras
AH-03127MB Base

Norden Communication UK Ltd

10 Baker Close, Oakwood Business Park, Clacton-On-Sea, Essex, CO15 4BD, United Kingdom
Tel: +44 (0) 207 788 7663
E-mail: sales@nordencommunication.com • Website: www.nordencommunication.com

Certificate No: 1330d-(cl-10) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
NFA-T01ST	Addressable Sounder Strobe (NFA-T01ST Sounder Base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz – 2900 Hz @ 3Hz - Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off - Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/01
NFA-T01SB	Sounder Flasher Base Notes: 1. Approved to Type A Indoor use only.	1330d/02

2. Meets the requirements of EN 54-3 at the following tones:

- Tone 14, 2400 Hz – 2900 Hz @ 3Hz
- Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off
- Tone 17, 800Hz, 1s off/1s on

The strobe function is not approved to EN 54-23

Bases
NFA-T01ST Sounder Base

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, 34147, Italy
Tel: +44 (0)1444 230300
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 567ag-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
NFXI-WSF-WC	Analogue Addressable Wall Mounted Sounder / LED Strobe with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. WC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz;	567ag/21

18) Intermittent 922, 1Hz 500ms on, 500ms off;

19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) Continuous 800Hz;

21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) Sweep 2400 - 2850, 7Hz;

24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on);

25) Sweep 800 - 970, 50Hz;

26) Sweep 800 - 970, 7Hz;

27) Sweep 800 - 970, 1Hz;

28) Sweep 2400 - 2850, 50Hz;

29) Sweep 500 - 1000, 7Hz;

30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) Sweep 800 - 1000, 2Hz;

32) Sweep 2400 - 2850, 1Hz

NFXI-DSF-WC	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. WC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and System Sensor 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off;	567ag/22

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

NFXI-BSF-xCH	Addressable Type A Detector Base Sounder Strobe	567ag/23

Notes:

1. x indicates body colour. D = Detector White, P=Pure White

2. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,

Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

Hold 1200Hz for 4s

Falling from 1200Hz to 500Hz in 1s

Tone 31 - Sweep 800-1000Hz for 2Hz

Tone 32 - Sweep 2400-2850Hz for 1Hz

3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings High C-3-15, Low C-3-11 & O-1-4

- Synchronization

- Flash rate 0.5Hz & 1Hz

- Red LED

- Clear lens

NFXI-BSF-xCS Addressable Type A Detector Base Sounder Strobe 567ag/24

Notes:

1. x indicates body colour. Detector White, P=Pure White

2. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,

Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

Hold 1200Hz for 4s

Falling from 1200Hz to 500Hz in 1s

Tone 31 - Sweep 800-1000Hz for 2Hz

Tone 32 - Sweep 2400-2850Hz for 1Hz

3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings C-3-8.5 & O-1-3

- Synchronization

- Flash rate 0.5Hz & 1Hz

- Red LED

- Clear lens

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Certificate No: 567ah-(cl-2) to EN 54-17:2005 & EN 54-23: 2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
NFXI-WF-WC	Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base) Note: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010	567ah/05

	for the following category (light pattern details): - Category O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box	
NFXI-BF-xCS	Addressable Type A Detector Base Strobe Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens 2. x indicates body colour. D=Detector White, P=Pure White	567ah/07
WRL-PC-I02	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/08
WRL-RC-I02	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/09
WWL-PC-I02	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/10
WWL-RC-I02	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED	567ah/11

- Clear lens

Bases/ Ancillaries B501AP Mounting base - Low profile base IP21C Bcc Deep base IP44, *cc indicates colour, RR=Red, DD=Detector White, PW=Pure White*

Wcc Waterproof base IP65, *cc indicates colour, RR=Red, DD=Detector White, PW=Pure White*

Certificate No: 567aw-(cl-2) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
NBS3D	4 Tone Type A Conventional Ceiling Mounting Sounder (White)	567aw/02
	Note: 1. Meets the requirements of EN 54-3 at all output levels, and voltage ranges of 10-14 VDC and 19.5-28VDC for the following tones: - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence - 800Hz continuous - 500Hz-1200Hz slow whoop - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence	

Certificate No: 567ay-(cl-4) to EN 54-3:2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
NFX-DSF-WC	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base)	567ay/08
	Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and System Sensor 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off;	

15) 970, 0.8Hz 0.25s on, 1s off;

16) 970, 0.5Hz 1s on, 1s off;

17) 2850, 1Hz;

18) 970, 1Hz 500ms on, 500ms off;

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz;

26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz;

28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz;

32) 2400 - 2850, 1Hz

B501AP base

Certificate No: 567az-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
WRA-PC-I02	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630	567az/01

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WRA-RC-I02 — Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Red Body (B501AP) — 567az/02

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low red output
- Medium red output
- High red output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4.2-11.5/W-2.4-11.5)
- Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5)
- Low Performance setting - (Category O-2.4-3)
- Synchronization
- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WWA-PC-I02	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Pure White Body (B501AP)	567az/03

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low white output

- Medium white output

- High white output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4-11.5/W-2.4-11.5)

- Medium Performance setting - (Category W-3.8-9/W-2.4-9)

- Low Performance setting - (Category O-2.4-3)

- Synchronization

- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

WWA-RC-I02	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Red Body (B501AP)	567az/04

Notes:

1. Meets the requirements of EN 54-23 at the following power settings:

- Low white output

- Medium white output

- High white output

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- High Performance setting - (Category W-4-11.5/W-2.4-11.5)

- Medium Performance setting - (Category W-3.8-9/W-2.4-9)

- Low Performance setting - (Category O-2.4-3)

- Synchronization

- Flash rate (0.5Hz & 1Hz)

3. Meets the requirements of EN 54-3 at the following tones:

1 - Alternating 554/440 2Hz (100ms/400ms)

2 - Alternating 800/922 1Hz

3 - Alternating 800/922 2 Hz

4 - Alternating 2400/2900 3Hz

5 - Alternating 2500/3100 2Hz

6 - Alternating 988/645 2Hz

7 - Continuous 630

8 - Continuous 922

9 - Continuous 1200

10 - Continuous 2810

11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s

12 - Intermittent 420 0.625s on, 0.625s off

13 - Sweep 500-1200 0.25s off, 3.75s on

14 - Intermittent 630 3.33Hz 150ms on, 150ms off

15 - Intermittent 922 0.8Hz 0.25s on, 1s off

16 - Intermittent 922 0.5Hz 1s on, 1s off

17 - Intermittent 2810 1Hz

18 - Intermittent 922 1Hz 500ms on, 500ms off

19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off

20 - Continuous 800

21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off

22- Sweep 1200-500 0.99Hz 1s on, 0.01s off

23 - Sweep 2400-2850 7Hz

24 - Sweep 500-1200 (0.5s off, 3.5s on)

25 - Sweep 800-970 50Hz

26 - Sweep 800-970 7Hz

27 - Sweep 800-970 1Hz

28 - Sweep 2400-2850 50Hz

29 - Sweep 500-1000 7Hz

30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s

31 - Sweep 800-1000 2Hz

32 - Sweep 2400-2850 1Hz

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Certificate No: 567z-(cl-2) to EN 54-3: 2014 + A1: 2019 and EN 54-17: 2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
NFXI-WS-z	Analogue addressableType A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)	567z/09

	Notes: 1. z indicates body colour. R=Red, W=Pure White 2 Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base	
NFXI-WSF-zz	Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) **Notes:** 1. **zz** indicates body/lens colour. **RR**=Red/Red, **WC**=Clear/Clear 2. Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;	567z/10

	29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	
NFXI-BS-zz	Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases) **Notes:** 1. **zz** indicates body colour. **W**=Pure White, **IV**=Detector White 2 Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567z/11
NFXI-BSF-zzz	Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases) **Notes:** 1. **zzz** indicates body/lens colour. **WC**=Pure White/Clear, **IVC**=Detector White/Clear 2. Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off;	567z/12

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;

27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;

29) 500 - 1000, 7Hz;

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Certification excludes the strobe function.

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar, Uttar Pradesh, 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450a-(cl-2) to EN 54-3: 2014 + A1: 2019

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
NF5266	Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) Notes: Meets the requirements of EN 54-3 for the following tones 1) One Default Tone 3.5s ~ 4.5s The Beacon function is not approved to EN 54-23	1450a/01
NF5270	Addressable Sounder Strobe Type A Notes: Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

Base

Base with 86H50 Embedded Box

Oscar Fire, Safety & Security Ltd

22 Sacriston Close, Billingham, Cleveland, Durham, TS23 2TE, United Kingdom
Tel: +44 1642 560218
E-mail: kevin@oscarfire.uk

Certificate No: 1426a-(cl-8) to EN 54-3: 2014 + A1: 2019, EN 54-23: 2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
SDS-9091C	Conventional Sounder Beacon (SDS91K Base) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/01

Base:
SDS91K

Certificate No: 1426h-(cl-7) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SDS-9092A	Intelligent Red Sounder with Visual Indicator (SDS91K Base) Note: Meets the requirements of EN 54-3 at the following tone: - Sweep tone 667Hz-2kHz @0.21Hz	1426h/01

Base:
SDS91K

Certificate No: 1426j-(cl-6) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SDS-9097A	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket) Note: Meets the requirements of EN 54-3 at the following tone: - Sweep Tone 667Hz – 2KHz@0.21Hz	1426j/01

Accessories:
Standard Mounting Bracket

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya, 10150, Indonesia

Tel: +62216330330

E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426a-(cl-5) to EN 54-3 :2014 + A1: 2019,, EN 54-23: 2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SSS 337	Addressable Sounder Beacon (DZ-9091 Base) Notes: 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz	1426a/02

- One Mode (Light output synchronization)

- Flash Colour White

- For wall and ceiling mounting

2) Meets the requirements of EN 54-3 at the following tone:

- Tone 1: 667Hz - 2000Hz@0.22Hz

Base

DZ-9091

Safetek Fire Fighting & Safety Equipment Trading L.L.C.

Dubai Investment Park 1, Dubai, 133358, United Arab Emirates
Tel: +971 0554149550
E-mail: firesafetek@gmail.com

Certificate No: 1330d-(cl-8) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SK7300	Addressable Sounder Strobe (SK7300 Sounder Base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz – 2900 Hz @ 3Hz - Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off - Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/01
SK7302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz – 2900 Hz @ 3Hz - Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off - Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

Bases
SK7300 Sounder Base

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong, 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426a-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
C9091T	Conventional Sounder Beacon (DK-9091K Base)	1426a/01

	Notes: 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	
A9091T	Addressable Sounder Beacon (DZ-9091 Base)	1426a/02
	Notes: 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	

Base
DZ-9091K
DZ-9091

Certificate No: 1426h-(cl-1) to EN 54-3:2014 + A1:2019

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
A9092T	Intelligent Red Sounder with Visual Indicator (DZ-9091K Base)	1426h/01
	Notes: Meets the requirements of EN 54-3 at the following tone: Sweep tone 667Hz-2kHz @0.21Hz	

Base

DZ-9091K

Certificate No: 1426j-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
A9097B	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket)	1426j/01
	Notes: Meets the requirements of EN 54-3: 2014 at the following tones Sweep Tone 667Hz - 2KHz@0.21Hz	

Accessories

Standard Mounting Bracket

SHIELD FIRE, SAFETY & SECURITY LTD

Unit 3, Endeavour Drive, Basildon, SS14 3WF, United Kingdom
Tel: +44 1708 377 731
E-mail: info@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010ak-(cl-4) to EN 54-3:2014 +A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SEN-A4021	(SEN-A4025 enhanced deep isolating base) Note: 1. Meets the requirements of EN 54-3 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/01
SEN-A4022	Type B Intelligent Open Area Sounder Beacon (Red) (SEN-A4025 enhanced deep isolating base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/03

Accessories:

SEN-A4025 Enhanced deep isolating base (Red)

Certificate No: 010ax-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SEN-A4026	Addressable Sounder Base (White) with Isolator (SEN-A4027 and SEN-A4028 Caps) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, 0.5s off Tone 4 DIN Toe (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz Tone 17 Swedish all clear signal - Continuous - 660Hz 2. Type A and approved for sounder volumes 2-7 only.	010ax/01

Accessories:

SEN-A4027 White Cap (Lockable)

SEN-A4028 Red Cap (Lockable)

Certificate No: 176e-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SEN431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - A stacked sounder base combination with detectors from the Apollo Discovery range	176e/03

Siemens Switzerland Ltd

Theilerstrasse 1a, Zug, CH-6300 , Switzerland
Website: www.siemens.com

Certificate No: 531p-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FDS224-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04

FDS224-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04
FDS225-R	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/05
FDS225-W	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off	531p/05

6 - Intermittent 500Hz, 0.15s on, 0.6s off

7 - Continuous 500Hz

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2. Operating voltage range 12-33V

Bases

FDB226-R / FDB226-W Base (IP33C)

FDB227-R / FDB227-W Deep base (IP33C)

Certificate No: 531u-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
DBS720	Analogue Addressable Type A Base Sounder	531u/01
	Notes:	
	1) Meets the requirements of EN 54-3 with the following tones:	
	970Hz Continuous	
	950Hz; 1s on,1s off Intermittent	
	1200Hz??500Hz at 1Hz Tone 3 Sweep down	
	500Hz??1200Hz over 3.5s, 0.5s off Slow whoop	
	500Hz; 0.15s on, 0.1s off Pulse tone	
	500Hz; 0.15s on, 0.6s off Intermittent	
	500Hz Tone 7 Continuous	
	560Hz 0.1s/440Hz 0.4s Tone 8 Alternating	
	420Hz; 0.6s on, 0.65s off Tone 9 Intermittent	
	500??1200Hz over 3.75s, 0.25s off Tone 10 Slow whoop	
	970Hz; 3 pulses 0.5s on, 0.5s off repeated after 1.5s Tone 11 Intermittent	
	2) Approved only when used with detector devices OP720, OH720, HI720, HI722, OOH740 and OOHC740	
FDSB291	Analogue Addressable Loop Sounder Base	531u/02
	Note:	
	1) Meets the requirements of EN 54-3 at the following tones:	
	970Hz Continuous	
	950Hz 1s Intermittent	
	1200-500Hz Sweep Down 1s	
	520-1200Hz Sweep Up 3.5s, 0.5s off	
	500Hz Pulse 0.15s on, 0.1s off	
	500Hz Pulse 0.15s on, 0.6s off	
	500Hz Continuous	
	560Hz/440Hz 100ms on, 400ms off	

	420Hz 0.6s on, 0.65s off 500Hz-1200Hz Sweep Up 3.75s, 0.25s off 970Hz 3 pulses 0.5s on 0.5s off, then 1.5s pause	
FDSB292	Analogue Addressable Loop Sounder Base Notes: 1) Approved for use with detector models FDOOT241-9 and FDOOT241-A9 in collective mode 2) Meets the requirements of EN 54-3 at the following tone: 970Hz Continuous	531u/03
FDS224-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04
FDS224-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04

FDS225-R	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/05
FDS225-W	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/05
FDS364-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off	531y/01

	5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	
FDS364-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531y/01

FDB226-R / FDB226-W Base (IP33C)

FDB227-R / FDB227-W Deep Base (IP33C)

Certificate No: 531v-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
FDS226-RR	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off	531v/01

7 - Continuous 500Hz

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2) Meets the requirements of EN 54-23 at the following:

- Category W-2.8-8.8 (High Beacon Intensity)

W-2.4-7.5 (Medium Beacon Intensity)

O-2-6.2 (Low Beacon Intensity)

· Flash Rate 0.5Hz

· Operating Voltage Range 16-33V

FDS226-WR

Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases) 531v/01

Notes:

1. Meets the requirement of EN 54-3 at the following tones:

1 - Continuous 970Hz

2 - Intermittent 950Hz, 1s on, 1s off

3 - Sweep down 1200Hz to 500Hz, 1s period

4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off

5 - Pulse tone 500Hz, 0.15s on, 0.1s off

6 - Intermittent 500Hz, 0.15s on, 0.6s off

7 - Continuous 500Hz

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2) Meets the requirements of EN 54-23 at the following:

- Category W-2.8-8.8 (High Beacon Intensity)

W-2.4-7.5 (Medium Beacon Intensity)

O-2-6.2 (Low Beacon Intensity)

· Flash Rate 0.5Hz

· Operating Voltage Range 16-33V

FDS226-RW

Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs (FDB226-R, FDB227-R bases) 531v/02

Notes:

1. Meets the requirement of EN 54-3 at the following tones:

1 - Continuous 970Hz

2 - Intermittent 950Hz, 1s on, 1s off

3 - Sweep down 1200Hz to 500Hz, 1s period

	4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V	
FDS226-WW	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V	531v/02
FDS227-RR	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: Notes: 1. Meets the requirement of EN 54-3 at the following tones:	531v/03

1 - Continuous 970Hz

2 - Intermittent 950Hz, 1s on, 1s off

3 - Sweep down 1200Hz to 500Hz, 1s period

4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off

5 - Pulse tone 500Hz, 0.15s on, 0.1s off

6 - Intermittent 500Hz, 0.15s on, 0.6s off

7 - Continuous 500Hz

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2) Meets the requirements of EN 54-23 at the following:

- Category W-2.8-8.8 (High Beacon Intensity)

W-2.4-7.5 (Medium Beacon Intensity)

O-2-6.2 (Low Beacon Intensity)

· Flash Rate 0.5Hz

· Operating Voltage Range 16-33V

FDS227-WR	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit Isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases)	531v/03

Notes:

1. Meets the requirement of EN 54-3 at the following tones:

1 - Continuous 970Hz

2 - Intermittent 950Hz, 1s on, 1s off

3 - Sweep down 1200Hz to 500Hz, 1s period

4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off

5 - Pulse tone 500Hz, 0.15s on, 0.1s off

6 - Intermittent 500Hz, 0.15s on, 0.6s off

7 - Continuous 500Hz

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2) Meets the requirements of EN 54-23 at the following:

- Category W-2.8-8.8 (High Beacon Intensity)

W-2.4-7.5 (Medium Beacon Intensity)

O-2-6.2 (Low Beacon Intensity)

· Flash Rate 0.5Hz

· Operating Voltage Range 16-33V

FDS227-RR-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red	531v/03

	Body, Red LEDs* (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	
FDS227-WR-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs* (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity)	531v/03

	· Flash Rate 0.5Hz · Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	
FDS227-RW	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V	531v/04
FDS227-WW	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531v/04

	2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V	
FDS227-RW-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs* (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V	531v/04
FDS227-WW-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs* (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap	531v/04

12 Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2) Meets the requirements of EN 54-23 at the following:

- Category W-3.2-10 (High Beacon Intensity)

W-2.4-7.5 (Medium Beacon Intensity)

O-2-6.2 (Low Beacon Intensity)

· Flash Rate 0.5Hz

· Operating Voltage Range 16-33V

*Can be configured according to specific customer requirements

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FDSB226-WW — Analogue Addressable Type A Sounder Beacon Base with Short Circuit Isolator, White Body, White LEDs (FDB228, FDB229 bases) — 531v/05

Notes:

1. Meets the requirement of EN 54-3 at the following tones:

1 - Continuous 970Hz

2 - Intermittent 950Hz, 1s on, 1s off

3 - Sweep down 1200Hz to 500Hz, 1s period

4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off

5 - Pulse tone 500Hz, 0.15s on, 0.1s off

6 - Intermittent 500Hz, 0.15s on, 0.6s off

7 - Continuous 500Hz

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 - Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2) Meets the requirements of EN 54-23 at the following:

- Category O-4-15 (High Beacon Intensity)

C-3-12 (Medium Beacon Intensity)

O-2.5-6.5 (Low Beacon Intensity)

· Flash Rate 0.5Hz

· Operating Voltage Range 16-33V

3) Compatible with Sinteso and Cerberus range of detectors as applicable

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FDSB226-WR — Analogue Addressable Type A Sounder Beacon Base with Short Circuit Isolator, White Body, Red LEDs (FDB228, FDB229 bases) — 531v/06

Notes:

1. Meets the requirement of EN 54-3 at the following tones:

1 - Continuous 970Hz

2 - Intermittent 950Hz, 1s on, 1s off

3 - Sweep down 1200Hz to 500Hz, 1s period

4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off

5 - Pulse tone 500Hz, 0.15s on, 0.1s off

6 - Intermittent 500Hz, 0.15s on, 0.6s off

	7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) C-3-10 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB227-WW	Analogue Addressable Type A Voice Sounder Beacon Base with Short Circuit Isolator, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) C-3-12 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) · Flash Rate 0.5Hz · Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	531v/07

FDSB227-WW-C	Analogue Addressable Type A Voice Sounder Beacon Base, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) C-3-12 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable * Can be configured according to specific customer requirements.	531v/07
FDSB227-WR	Analogue Addressable Type A Voice Sounder Beacon Base with Short Circuit Isolator, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap	531v/08

	12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) C-3-10 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB227-WR-C	Analogue Addressable Type A Voice Sounder Beacon Base, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) C-3-10(Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable * Can be configured according to specific customer requirements.	531v/08

Bases

FDB226-R / FDB226-W Base (IP33C)

FDB227-R / FDB227-W Deep base (IP33C)

FDB228 Flat Base

FDB229 Deep Base

FDBZ298 Blanking Plate

FDBZ221 Ring Attachment (for use with Sinteso range of detectors)

Certificate No: 531y-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
FDS364-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531y/01
FDS364-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off	531y/01

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 - Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2. Operating voltage range 12-33V

Bases

FDB226-R Base

FDB227-R Deep Base

FDB226-W Base

FDB227-W Deep Base

Certificate No: 531z-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
FDS366-RR	Analogue Addressable Type B Sounder Beacon VAD with SCI, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Meets the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	531z/01
FDS366-RW	Analogue Addressable Type B Sounder Beacon VAD with SCI, Red Body, White LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off	531z/02

	6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Meets the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	
FDS366-WR	Analogue Addressable Type B Sounder Beacon VAD with SCI, White Body, Red LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Meets the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	531z/01
FDS366-WW	Analogue Addressable Type B Sounder Beacon VAD with SCI, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz	531z/01

8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s

9 - Intermittent 420Hz, 0.6s on, 0.65s off

10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off

11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap

12 - Sweep-up 800Hz to 970Hz, 1/7s period

13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

2. Meets the requirements of EN 54-23 at the following:

W-2.4-7.5 (Medium Beacon Intensity)

Flash Rate 0.5Hz

Operating Voltage Range 16-33V

Bases

FDB226-R Base

FDB227-R Deep Base

FDB226-W Base

FDB227-W Deep Base

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100
Website: www.smsfire.co.uk

Certificate No: 567ag-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17: 2005 & EN 54-23: 2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SEN-S-VAD-HPR-R	Sentri Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/01
SEN-S-VAD-HPW-R	Sentri Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes:	567ag/04

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

1. Intermittent tone 970Hz @ 1Hz

2. Alternating tone 730/970Hz @ 2Hz

3. Continuous tone 970Hz

2. Meets the requirements of EN 54-23 at the following power settings:

- Low white output

- Medium white output

- High white output

3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN

54-23 for the following light pattern details:

- High Performance setting - (Category W: W-5-12.5)

- Medium Performance setting - (Category W: W-4.5-11.3)

- Low Performance setting - (Category W: W-3-8.5)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

SEN-S-VAD-LPR-R

Sentri Type A Red Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) 567ag/19

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

1. Intermittent tone 970Hz @ 1Hz

2. Alternating tone 730/970Hz @ 2Hz

3. Continuous tone 970Hz

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:

- Low Performance setting - (Category W: W-3-8.5)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

SEN-S-VAD-LPW-R

Sentri Type A White Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) 567ag/20

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

1. Intermittent tone 970Hz @ 1Hz

2. Alternating tone 730/970Hz @ 2Hz

3. Continuous tone 970Hz

2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN

54-23 for the following light pattern details:

- Low Performance setting - (Category W: W-3-8.5)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

SEN-S-VAD-HPR-EP-R

Sentri Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (Back Box) 567ag/02

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

1. Intermittent tone 970Hz @ 1Hz

2. Alternating tone 730/970Hz @ 2Hz

3. Continuous tone 970Hz

2. Meets the requirements of EN 54-23 at the following power settings:

- Low red output

- Medium red output

- High red output

3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN

54-23 for the following light pattern details:

- High Performance setting - (Category W: W-6.7-14)

- Medium Performance setting - (Category W: W-6.5-12.5)

- Low Performance setting - (Category W: W-5-9.5)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

SEN-S-VAD-HPW-EP-R	Sentri Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/18

S3-DB-R Deep Base - Red

S3-SB-R Shallow Base - Red

S3-DB-W S Cubed Deep Base - White

S3-SB-W S Cubed Shallow Base - White

Certificate No: 567ah-(cl-1) to EN 54-17: 2005 & EN 54-23: 2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No

SEN-VAD-HPR-R	Sentri Type A Red High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ah/01
SEN-VAD-HPW-R	Sentri Type A White High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ah/02

S3-DB-R Deep Base - Red

S3-SB-R Shallow Base - Red

S3-DB-W S Cubed Deep Base - White

S3-SB-W S Cubed Shallow Base - White

Certificate No: 567bb-(cl-1) to EN 54-23:2010, EN 54-17:2005 & EN 54-18:2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
S4M-VAD-LPR	S4 Low Power Type A Red VAD (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-10 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567bb/01

Products Extras

S4-700 Standard Base

S4 FLUSH Semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 567z-(cl-1) to EN 54-3:2014 + A1:2019 & EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SEN-S-EP-R	Sentri Type A Red Body Sounder with Short Circuit Isolator (Back Box) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	567z/06
SEN-S-R	Sentri Type A Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	567z/01
SEN-S-W	Sentri Type A White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	567z/03

S3-DB-R Deep Base - Red

S3-SB-R Shallow Base - Red

S3-DB-W S Cubed Deep Base - White

S3-SB-W S Cubed Shallow Base - White

Sodcks

8 Mogamaa Al-Fardous, Nasar City, Cairo, 11511, Egypt

Certificate No: 1426a-(cl-7) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
F505	Conventional Sounder Beacon (SFB500 Base)	1426a/01

	Notes: 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	
SF550	Addressable Sounder Beacon (SFB550 Base) Notes: 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/02

Base

SFB500

SFB550

Certificate No: 1426h-(cl-6) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
SF500	Intelligent Red Sounder with Visual Indicator (SFB500 Base) Notes: Meets the requirements of EN 54-3 at the following tone: Sweep tone 667Hz-2kHz @0.21Hz	1426h/01

Base

SFB500

Certificate No: 1426j-(cl-5) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
FB600	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket) Notes: Meets the requirements of EN 54-3 at the following tone: Sweep Tone 667Hz 2KHz@0.21Hz	1426j/01

Accessories

Standard Mounting Bracket

SVS Buildwel Private Limited

9/C-8, Sector-7, Rohini, New Dehli, 11085, India
Tel: 011-27053918 • Alt Tel: 011-27053818
E-mail: Info@svslifesafety.com

Certificate No: 1330d-(cl-9) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SHFT82HSC	Sounder-Strobe, Sounder or Strobe Alone (SHFT82HSC Sounder Base)	1330d/01
	Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz – 2900 Hz @ 3Hz - Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off - Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	

Bases
SHFT82HSC Sounder Base

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London, W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010ak-(cl-5) to EN 54-3:2014 +A1:2019

Alarm Warning Devices

Product Name	Description	LPCB Ref. No
5000-902	Syncoln Intelligent Open-Area Sounder (Red) (45681-518SHA base) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Apollo standard-840Hz,0.5s/558Hz,0.5s - Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off - German DIN-1200-500Hz over 1s	010ak/01
5000-903	Syncoln Intelligent Open-Area Sounder Visual Indicator (Red) (45681-518SHA base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Apollo standard-840Hz,0.5s/558Hz,0.5s - Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off - German DIN-1200-500Hz over 1s - The Beacon function is not approved to EN 54-23	010ak/03

Bases

PSO-0001

PSO-0003

45681-518SHA Deep Isolating Base (Red)

Tanda (UK) Limited

80 Coleman Street, London, EC2R 5BJ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330d-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
TX7300	Addressable Sounder Strobe (TX7300 base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: Tone 14, 2400 Hz - 2900 Hz @ 3Hz Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	1330d/01
TX7302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: Tone 14, 2400 Hz - 2900 Hz @ 3Hz Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	1330d/02

Base

TX7300 Sounder Base

Tanda Development Pte Ltd

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Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330d-(cl-4) to EN 54-3: 2014 + A1:2019

Product Name	Description	LPCB Ref. No
TX7300	Addressable Sounder Strobe (TX7300 base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3:2001 at the following tones: · Tone 14, 2400 Hz - 2900 Hz @ 3Hz	1330d/01

	· Tone 16, 500Hz - 1200Hz, 3.5s on/0.25s off · Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	
TX7302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: · Tone 14, 2400 Hz - 2900 Hz @ 3Hz · Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off · Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

Base

TX7300

Teletek Electronics JSC

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Certificate No: 1139d to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
SensoIRIS WSST IS	Intelligent Analogue Addressable Fire Alarm Type A Indoor Wall Sounder and Strobe with built-in Short Circuit Isolator Module Note: 1. Approved to Type A Indoor only. 2. Meets the requirements of EN 54-3 and approved at the following tone: Tone 27, 2400Hz 2900Hz @ 3Hz high volume only Meets the requirements of EN 54-23 and approved as Open Class Category	1139d/01

Certificate No: 1139e to EN 54-3:2014 + A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SensoIRIS WSOU IS-R	Intelligent Analogue Addressable Fire Alarm Type A Indoor Sounder with built-in Short Circuit Isolator Module Notes: 1. Approved to Type A Indoor only. 2. Meets the requirements of EN 54-3 and approved at the following tone: - Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only	1139e/01

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Certificate No: 717a to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
PSS-0068	Conventional Sounder with LED Strobe (Red Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/01
PSS-0079	Conventional Sounder with LED Strobe (Red Head / White Base) (PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/02
PSS-0073	Conventional Sounder with LED Strobe (Amber Head / Red Base) (PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/03
PSS-0080	Conventional Sounder with LED Strobe (Amber Head / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/04
PSS-0084	Sonos DC Sounder Wide Voltage (Red) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/05
PSS-0089	Sonos DC Sounder Wide Voltage (White) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only	717a/06

2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13

PSC-0045	Conventional Sounder with LED Strobe Common Operation (Red Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/10
PSC-0054	Conventional Sounder with LED Strobe Common Operation (Amber Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/12
PSC-0055	Conventional Sounder with Red LED Strobe (Clear Lens / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	717a/13

Bases:

PSO-0001 Shallow base (red)

PSO-0006 Shallow base (white)

PSO-0003 Deep base (red)

PSO-0007 Deep base (white)

PSO-0001 / 18-185856-2 Red shallow base

PSO-0017 / HSG6918 Red deep base

PSO-0006 / 18-186049-2 White shallow base

PSO-0018 / HSG6917 White deep base

PSO-0022 Sonos Grey Shallow Base

HSG6890SA Time Saver Base

Certificate No: 717d to EN 54-23: 2010 & EN 54-3:2014 + A1:2019

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
ESCA3000R	Conventional Type A sounder and ceiling mounted white light LED visual alarm device (red head / red base) - (PSO-0001 / 18- 185856-2, PSO-0017 / HSG6918 bases)	717d/01

	Notes: 1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization	
ESCA3000W	Conventional Type A sounder and ceiling mounted white light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/02
ESCA4000R	Conventional Type A sounder and wall mounted white light LED visual alarm device (red head / red base) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes: 1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/03
ESCA4000W	Conventional Type A sounder and wall mounted white light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/04
ESFA2000R	Conventional Type A Sounder and Ceiling Mounted Red Light LED Visual Alarm Device (Red Head / Red Base) - (PSO-0001 / 18- 185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/05
ESFA2000W	Conventional Type A Sounder and Ceiling Mounted Red Light LED Visual Alarm Device (White Head / White Base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/06
ESFA1000R	Conventional Type A Sounder and Wall Mounted Red Light LED Visual Alarm Device (Red Head / Red Base) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases)	717d/07

	Notes: 1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	
ESFA1000W	Conventional Type A sounder and wall mounted red light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/08

Bases:

PSO-0001 Shallow base (red)

PSO-0006 Shallow base (white)

PSO-0003 Deep base (red)

PSO-0007 Deep base (white)

PSO-0001 / 18-185856-2 Red shallow base

PSO-0017 / HSG6918 Red deep base

PSO-0006 / 18-186049-2 White shallow base

PSO-0018 / HSG6917 White deep base

PSO-0022 Sonos Grey Shallow Base

HSG6890SA Time Saver Base

Certificate No: 717e to EN54-23: 2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
ESBA3000R	Conventional Type A/B ceiling mounted white light LED visual alarm device (red head / red bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/01
ESBA3000W	Conventional Type A/B ceiling mounted white light LED visual alarm device (white head / white bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/02

ESBA4000R	Conventional Type A/B wall mounted white light LED visual alarm device (red head / red bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/03
ESBA4000W	Conventional Type A/B wall mounted white light LED visual alarm device (white head / white bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/04
ESDA2000R	Conventional Type A/B Ceiling Mounted Red Light LED Visual Alarm Device (Red Head / Red Bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/05
ESDA2000W	Conventional Type A/B Ceiling Mounted Red Light LED Visual Alarm Device (White Head / White Bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/06
ESDA1000R	Conventional Type A/B Wall Mounted Red Light LED Visual Alarm Device (Red Head / Red Bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/07
ESDA1000W	Conventional Type A/B Wall Mounted Red Light LED Visual Alarm Device (White Head / White Bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/08

Bases:

PSO-0001 Shallow base (red)

PSO-0006 Shallow base (white)

PSO-0003 Deep base (red)

PSO-0007 Deep base (white)

PSO-0001 / 18-185856-2 Red shallow base

PSO-0017 / HSG6918 Red deep base

PSO-0006 / 18-186049-2 White shallow base

PSO-0018 / HSG6917 White deep base

PSO-0022 Sonos Grey Shallow Base

HSG6890SA Time Saver Base

Certificate No: 717p to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-3: 2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
TCC-0001	Intrinsically Safe Fire Alarm Sounder Type B (Red) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)	717p/01
TCC-0007	Intrinsically Safe Fire Alarm Sounder Amber Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	717p/02
TCC-0008	Intrinsically Safe Fire Alarm Sounder Red Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	717p/02
TCC-0009	Intrinsically Safe Fire Alarm Sounder Blue Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop)	717p/02

	- Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	
HSG6890SA Time Saver Base		

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Certificate No: 1174c to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
VC-6734	Conventional Type A Sounder Strobe (VB-6711 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	1174c/01
VI-6737	Digital Type A Indoor Digital Sounder Beacon (VB-6619 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval	1174c/02

Bases
VB-6711 Mounting Base
VB-6619 Mounting Base

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Certificate No: 378e-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
LPSY865	Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/03

FC410LPSY	FireClass Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/03
LPAV865	Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz 2. The beacon function of this device is not included in the scope of this approval	378e/06
FC410LPAV	FireClass Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz 2. The beacon function of this device is not included in the scope of this approval	378e/06

Accessories:

B-CAP

Certificate No: 378k-(cl-1) to EN 54-23:2010, EN 54-3:2014 + A1:2019, EN 54-17:2005

Visual Warning Devices

Product Name	Description	LPCB Ref. No
LPBS865 LP	Beacon Symphoni Type B Sounder IP65 with Short Circuit Isolator - Red Housing Notes: 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD is a Type B device and includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 6 - Temporal 3 880Hz 9 - Continuous 850Hz	378k/03
FC410LPBS LP	FireClass Loop Powered Type B Beacon/Sounder (IP65) with Short Circuit Isolator Notes: 1. The VAD is rated as Open Class (refer to installation guide)	378k/07

2. The VAD is a Type B device and includes synchronisation.

3. VAD Light Colour - White Flashing Light

4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz

5. Meets the requirements of EN 54-3 at the following tones:

1 - Dutch Slow Whoop 500Hz-1200Hz

2 - 7Hz Fast Sweep 800Hz-970Hz

6 - Temporal 3 880Hz

9 - Continuous 850 850Hz

Certificate No: 681at-(cl-1) to EN 54-3:2014+A1:2019, EN 54-17:2005

Audible Warning Devices

Product Name	Description	LPCB Ref. No
P80SB	Zettler Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing (576.080.002) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/01
FC440SB	FireClass Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing (576.440.002) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz	681at/01

	10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	
4098-5273	Simplex Type A Indoor Sounder Base with Short Circuit Isolator, White Housing Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/01
P80AIB	Zettler Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing (576.080.010) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/02

FC440AIB	FireClass Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing (576.080.010) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/02
4098-5274	Simplex Addressable Type A Indoor Sounder/Beacon Base with Short Circuit Isolator, Clear Housing Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/02
P80SW	Zettler Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing (576.080.003) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz	681at/03

	3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
FC440SW	FireClass Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing (576.440.003) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/03
4906-5225	Simplex Addressable Type A Indoor Wall Sounder White with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz	681at/03

	8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
P80SR	Zettler Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing (576.080.004) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/04
FC440SR	FireClass Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing (576.440.004) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz	681at/04

	11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
4906-5224	Simplex Addressable Type A Indoor Wall Sounder Red with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/04
P80AIW	Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing (576.080.011) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz	681at/05

	15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
FC440AIW	FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing (576.440.011) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/05
4906-5226	Simplex Type A Indoor Sounder Beacon White with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/05
P80AIR	Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing (576.080.012) Note:	681at/06

	Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
FC440AIR	FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing (576.440.012) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/06
4906-5223	Simplex Type A Indoor Sounder Beacon Red with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz	681at/06

	4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
P85SR	Zettler Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing (576.440.005) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/07
FC445SR	FireClass Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing (576.440.005) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz	681at/07

	8 Continuous 970 970Hz	
	9 Continuous 850 850Hz	
	10 DIN 1Hz Sweep 1200-500Hz	
	11 Banshee LF Buzzer 800-950Hz	
	12 3Hz Banshee 800-950Hz	
	13 9Hz Banshee 800-950Hz	
	14 Alternating 554/440Hz	
	15 Yodalarm 800/1000Hz	
	16 Conventional Bell 1450Hz	
4906-5222	Simplex Type B Outdoor Sounder IP Red with Short Circuit Isolator	681at/07
	Note:	
	Meets the requirements of EN 54-3 at the following tones:	
	1 Dutch Slow Whoop 500-1200Hz	
	2 7Hz Fast Sweep 800-970Hz	
	3 BS 1Hz Sweep 800-970Hz	
	4 2 Tone 680/800Hz	
	5 Temporal 4 880Hz	
	6 Temporal 3 880Hz	
	7 March Time Beep 880Hz	
	8 Continuous 970 970Hz	
	9 Continuous 850 850Hz	
	10 DIN 1Hz Sweep 1200-500Hz	
	11 Banshee LF Buzzer 800-950Hz	
	12 3Hz Banshee 800-950Hz	
	13 9Hz Banshee 800-950Hz	
	14 Alternating 554/440Hz	
	15 Yodalarm 800/1000Hz	
	16 Conventional Bell 1450Hz	
P85AIR	Zettler Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing (576.080.013)	681at/08
	Note:	
	Meets the requirements of EN 54-3 at the following tones:	
	1 Dutch Slow Whoop 500-1200Hz	
	2 7Hz Fast Sweep 800-970Hz	
	3 BS 1Hz Sweep 800-970Hz	
	4 2 Tone 680/800Hz	
	5 Temporal 4 880Hz	
	6 Temporal 3 880Hz	
	7 March Time Beep 880Hz	
	8 Continuous 970 970Hz	
	9 Continuous 850 850Hz	
	10 DIN 1Hz Sweep 1200-500Hz	
	11 Banshee LF Buzzer 800-950Hz	

	12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
FC445AIR	FireClass Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing (576.440.013) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/08

Certificate No: 681aw-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010, EN 54-17:2005

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
P80AVW	Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing (576.080.007), (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz	681aw/01

	7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	
FC440AVW	FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing (576.440.007) (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	681aw/01
P80AVR	Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing (576.080.008) (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz	681aw/02

	2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	
FC440AVR	FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing (576.440.008) (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	681aw/02
P85AVR	Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing (576.080.009) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity)	681aw/03

	- Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	
FC445AVR	FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing (576.440.009) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz	681aw/03

	15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	
FC445CAV	FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing (576.440.017) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.6-5.1 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	681aw/04
P80AVB	Zettler Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing (576.080.006) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 (High Beacon Intensity) - Open Class O-2.1-7.0 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz	681aw/05

	9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	
FC440AVB	FireClass Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing (576.440.006) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 (High Beacon Intensity) - Open Class O-2.1-7.0 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/05
P81AVB	Zettler Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing (576.080.014) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-15 (High Beacon Intensity) - Open Class O-2.7-8.5 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz	681aw/06

	5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	
FC441AVB	FireClass Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing (576.440.014) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-15 (High Beacon Intensity) - Open Class O-2.7-8.5 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/06
FC440CAVB	FireClass Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing (576.440.016) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.8-6.2 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz	681aw/07

	3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	
P85CAV	Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing (576.080.017) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.6-5.1 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	681aw/04
P80CAVB	Zettler Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing (576.080.016) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.8-6.2 - Flash rate 0.5Hz and 1Hz	681aw/07

- Operating voltage range 20-40 VDC

2. Meets the requirements of EN 54-3 for the following:

1 - Dutch Slow Whoop, Sweep 500-1200Hz

2 - 7Hz Fast Sweep, 800-970Hz

3 - BS 1Hz Sweep, 800-970Hz

4 - 2 Tone, Alternating 660 / 880Hz

5 - Temporal 4, Intermittent 880Hz

6 - Temporal 3 (ISO 8201), Intermittent 880Hz

7 - March Time Beep, Intermittent 880Hz

8 - Continuous 970, 970Hz

9 - DIN 1Hz Sweep, 1200-500Hz

10 - Banshee LF Buzzer, Sweep 800-950HZ

11 - 3Hz Banshee Fast Sweep, 800-950Hz

12 - 9Hz Banshee Fast Sweep, 800-950Hz

13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz

14 - Yodalarm, Alternating 800 / 1000Hz

15 - Continuous Bell 1450Hz

P82AVB — Addressable Type A Indoor Open Class Base Sounder VAD with SCI, White Flash, Clear Housing (576.080.015) (B-CAP, A-CON) — 681aw/08

Notes:

1) Meets the requirements of EN 54-3 at the following tones:

1 - Dutch Slow Whoop 500-1200Hz

2 - 7Hz Fast Sweep 800-970Hz

3 - BS 1Hz Sweep 800-970Hz

4 - 2 Tone 680/800Hz

5 - Temporal 4 880Hz

6 - Temporal 3 880Hz

7 - March Time Beep 880Hz

8 - Continuous 970 970Hz

9 - DIN 1Hz Sweep 1200-500Hz

10 - Banshee LF Buzzer 800-950Hz

11 - 3Hz Banshee 800-950Hz

12 - 9Hz Banshee 800-950Hz

13 - Alternating 554/440Hz

14 - Yodalarm 800/1000Hz

15 - Conventional Bell 1450Hz

2) Meets the requirements of EN 54-23 for the following:

- Open Class: Coverage volume and shape as detailed in operation manual

- Flash rate 0.5Hz and 1Hz

- Operating voltage range 20-40 VDC

FC442AVB — FireClass Addressable Type A Indoor Open Class Base Sounder VAD with SCI, White Flash, Clear Housing (576.440.015) (B-CAP, A-CON) — 681aw/08

Notes:

1) Meets the requirements of EN 54-3 at the following tones:

1 - Dutch Slow Whoop 500-1200Hz

2 - 7Hz Fast Sweep 800-970Hz

3 - BS 1Hz Sweep 800-970Hz

4 - 2 Tone 680/800Hz

5 - Temporal 4 880Hz

6 - Temporal 3 880Hz

7 - March Time Beep 880Hz

8 - Continuous 970 970Hz

9 - DIN 1Hz Sweep 1200-500Hz

10 - Banshee LF Buzzer 800-950Hz

11 - 3Hz Banshee 800-950Hz

12 - 9Hz Banshee 800-950Hz

13 - Alternating 554/440Hz

14 - Yodalarm 800/1000Hz

15 - Conventional Bell 1450Hz

2) Meets the requirements of EN 54-23 for the following:

- Open Class: Coverage volume and shape as detailed in operation manual

- Flash rate 0.5Hz and 1Hz

- Operating voltage range 20-40 VDC

Accessories

S-BOX Surface Backbox for Indoor Wall Sounder VAD (Red)

A-BOX Flush Backbox Adaptor for Indoor Wall Sounder (Metal)

B-CAP Blanking Cap for Sounder VAD (White)

A-CON Conduit Adaptor for Sounder VAD (White)

Certificate No: 681g-(cl-1) to EN 54-3:2014+A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
802SB	Analogue Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Fast Sweep Dutch Slow Whoop 500Hz to 1200Hz Temporal 3 880Hz	681g/01
FC430SB	Analogue Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Fast Sweep Dutch Slow Whoop 500Hz to 1200Hz Temporal 3 880Hz	681g/01
601SB	Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz	681g/02

	Dutch Slow Whoop 500Hz to 1200Hz	
	Continuous 880Hz	
601SBD	Type A Diode Sounder Base	681g/03
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	Temporal 3 880Hz	
	Dutch Slow Whoop 500Hz to 1200Hz	
	Continuous 880Hz	
602SB	Type A Sounder Base	681g/04
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	Temporal 3 880Hz	
	Dutch Slow Whoop 500Hz to 1200Hz	
	Continuous 880Hz	
602SBD	Type A Diode Sounder Base	681g/05
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	Temporal 3 880Hz	
	Dutch Slow Whoop 500Hz to 1200Hz	
	Continuous 880Hz	
901SB	Analogue Addressable Type A Sounder Base	681g/06
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	Temporal 3 880Hz	
	Dutch Slow Whoop 500Hz to 1200Hz	
	Continuous 880Hz	
80DSB	Zettler Type A Indoor Detector Base Sounder, White Housing (576.080.001)	681g/07
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	DIN 1Hz Sweep 1200Hz to 500Hz	
	Dutch Slow Whoop 500Hz to 1200Hz	
	Temporal 4 880Hz	
	BS 1Hz Sweep 800Hz to 970Hz	
	March Time Beep 880Hz	
	7Hz Fast Sweep 800Hz to 970Hz	
	Temporal 3 880Hz	
	2 Tone 660Hz/880Hz	
	Continuous 970Hz	
FC440DSB	FireClass Type A Indoor Detector Base Sounder, White Housing (576.440.001)	681g/07
	Note:	
	1. Meets the requirements of EN 54-3 at the following tones:	
	DIN 1Hz Sweep 1200Hz to 500Hz	
	Dutch Slow Whoop 500Hz to 1200Hz	

	Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz	
4098-5278	Simplex Type A Indoor Non-Addressable Sounder Base, White Housing (B-CAP) Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz	681g/07

Accessories:

B-CAP

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174c-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Device

Product Name	Description	LPCB Ref. No
VG-6734	Conventional Type A Sounder Strobe (VG-6711 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	1174c/01
VG-6737	Addressable Type A Indoor Digital Sounder Beacon (VG-6619 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz	1174c/02

2. The beacon function is not included within the scope of this approval

Bases:

VG-6711 Standard base

VG-6619 Mounting base

Vimpex Limited

Star Lane, Great Wakering, Essex, SS3 0PJ, United Kingdom
Tel: +44 (0) 1702 216999
E-mail: sales@vimpex.co.uk • Website: www.vimpex.co.uk

Certificate No: 456d to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
CBE6-XY-024-ZZ	24v ClamBell with 6 Gong	456d/01
	Where 'X' - Can be Colour (R-Red, W-White, G-Grey)	
	Where 'Y' - Can be Back Box Type (S-Shallow, D-Deep, W-Weatherproof)	
	Where ZZ - Can be the product language	

Bases:

Standard Shallow Back Box for Type A

Deep Back Box for Type B

Weatherproof Deep Back Box with additional silicon gasket for Type B

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL, 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426a-(cl-4) to EN 54-3 :2014 + A1: 2019, EN 54-23: 2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
VI 100-SB	Conventional Sounder Beacon (DZ-9091K Base)	1426a/01
	Notes:	
	1) Meets the requirements of EN 54-23 at the following:	
	- Category C-3-8 + W-2.4-6	
	- Flash rate 0.5Hz	
	- One Mode (Light output synchronization)	
	- Flash Colour White	
	- For wall and ceiling mounting	
	2) Meets the requirements of EN 54-3 at the following tone:	
	- Tone 1: 667Hz - 2000Hz@0.22Hz	
VI 200-SB	Addressable Sounder Beacon (DZ-9091 Base)	1426a/02
	Notes:	
	1)Meets the requirement of EN 54-23 at the following:	
	- Category C-3-8 + W-2.4-6	

- Flash Rate 0.5Hz

- One Mode (Light output synchronization)

- Flash Colour White

- For wall and ceiling mounting

2) Meets the requirements of EN 54-3 at the following tone:

- Tone 1: 667Hz - 2000Hz@0.22Hz

Bases

DZ-9091K

DZ-9091

Certificate No: 1426h-(cl-3) to EN 54-3 :2014 + A1: 2019,

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
VI 200-SBLP	Intelligent Red Sounder with Visual Indicator	1426h/01
	Notes:	
	Meets the requirements of EN 54-3 at the following tone:	
	Sweep tone 667Hz-2kHz @0.21Hz	

Base

DZ-9091K

Certificate No: 1426j-(cl-3) to EN 54-3: 2014 + A1: 2019

Product Name	Description	LPCB Ref. No
VI 200-BSB	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket)	1426j/01
	Notes:	
	Meets the requirements of EN 54-3: 2014 at the following tones	
	Sweep Tone 667Hz 2KHz@0.21Hz	

Accessories

Standard Mounting Bracket

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 904f-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
SIGA-AB4GI	Sounder Base	904f/01
	Notes:	
	1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-IS and SIGA-HRSI	
	2. Meets the requirements of EN 54-3 with Steady and Temporal tones and operating voltages from 16-33 VDC	
	3. Certified for use with AB4G-SB Surface mounting box.	

	4. This is a Type A Indoor device.	
G1Axx-E	Sounder Notes: 1. Meets the requirement of EN 54-3 with Continuous and Temporal tones and operating voltages of 16-33 VDC 2. Certified for use with G1RB-E and G1WB-E back boxes 3. This is a Type A Indoor Device **xx = RF or RN or WF or WN** RF is Red with Fire Marking RN is Red with No Fire Marking WF is White with Fire Marking WN is White with No Fire Marking	904f/02

Ancillaries

AB4G-SB Surface Mounting Box

G1RB-E Red Back Box

G1WB-E White Back Box

Certificate No: 904h-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Visual & Audible Warning Devices

Product Name	Description	LPCB Ref. No
G1AVxx-E	Sounder Beacon Notes: 1. Meets the requirements of EN 54-23 for the following: - Category (W-2.4-8.5) - Flash rate 1Hz - Synchronization - Operating voltage range 16-33 VDC 2. Meets the requirements of EN 54-3 with Continuous and Temporal tones and operating voltages of 16-33 VDC 3. Certified for use with G1RB-E and G1WB-E back boxes 4. This is a Type A Indoor Device **xx = RF or RN or WF or WN** RF is Red with Fire Marking RN is Red with No Fire Marking WF is White with Fire Marking WN is White with No Fire Marking	904h/01

Ancillaries

G1RB-E Red Back Box

G1WB-E White Back Box

Certificate No: 904j-(cl-1) to EN 54-23:2010

Visual Warning Devices

Product Name	Description	LPCB Ref. No
G1Vxx-E	Beacon Notes: 1. Meets the requirements of EN 54-23 for the following: - Category (W-2.4-8.5) - Flash rate 1Hz - Synchronization - Operating voltage range 16-33 VDC **xx = RF or RN or WF or WN** RF is Red with Fire Marking RN is Red with No Fire Marking WF is White with Fire Marking WN is White with No Fire Marking	904j/01
GSE**-E	Wall Speaker Strobe Expander Notes: 1. Meets the requirements of EN 54-23 for the following: - Category rating (W-2.4-8.5) - Synchronization - Flash rate 1Hz - Operating voltage 16-33Vdc **Where ** =** FT Fire Marking Top FB Fire Marking Bottom FL Fire Marking Left FR Fire Marking Right NT No Marking Top NB No Marking Bottom NL No Marking Left NR No Marking Right	904j/02

Ancillaries

G1RB-E Red Back Box

G1WB-E White Back Box

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning, 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450a to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
TCSG5266	Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) Notes:	1450a/01

	Meets the requirements of EN 54-3: for the following tone 1) One Default Tone 3.5s ~ 4.5s The Beacon function is not approved to EN 54-23	
TCDZ517S	Sounder Base Type A Notes: Meets the requirements of EN 54-3: for the following tones Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s) Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)	1450a/02
TCSG5270	Addressable Loop powered Sounder Strobe Type A Notes: Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz - 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

Base

Base with 86H50 Embedded Box

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea, SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330r to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ZXT/R	Zeta Conventional Xtratone Indoor Sounder (Red) Notes: 1. Meets the requirements of EN54-3 at the following tones: 1) Tone 0: 800Hz and 970Hz, 500ms each 2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/04
ZXT/W	Zeta Conventional Xtratone Indoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: 1) Tone 0: 800Hz and 970Hz, 500ms each 2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/05
ZRP/R	Conventional Raptor Outdoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: 1) Tone 0: 800Hz and 970Hz, 500ms each 2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/06
MKII-SSB	Fyreye II Sandwich Type A Indoor Sounder Base (MKII-AOP, MKII-AHR, MKII-AHF & MKII-AOH detectors & MKII-CB base) Note: 1. Meets the requirements of EN54-3 for the following tones:	330r/02

	1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms) 2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat	
MKII-AXT/R	Zeta Addressable Xtratone Type A Indoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/08
MKII-AXT/W	Zeta Addressable Xtratone Type A Indoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/09
ZRAP/R	Zeta Addressable Raptor Type B Outdoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/10
ZRAP/W	Zeta Addressable Raptor Type B Outdoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/11

Bases/Detectors
MKII-CB Shallow base
MKII-AOP Fyreye II Addressable optical smoke detector
MKII-AHR Fyreye II Addressable A1R heat detector
MKII-AHF Fyreye II Addressable A2S heat detector
MKII-AOH Fyreye II Addressable optical and heat detector
Standard Shallow Back Box for Type A
Deep Back Box for Type B
Weatherproof Deep Back Box with additional silicon gasket for Type B

Certificate No: 330s to EN 54-3:2014 + A1:2019, EN 54-23:2010

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ZXTB/R	Conventional Xtratone Indoor Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.4 - 7.0	330s/01

- Flash rate 0.5Hz
- White LED

ZXTB/W	Conventional Xtratone Indoor Sounder Beacon, White Plastic, White Flash	330s/02

Notes:

1. Meets the requirements of EN 54-3 at the following tones:
   - Tone 0: 800Hz and 970Hz, 500ms each
   - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop
2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following:
   - Coverage volume W 3.4 - 7.0
   - Flash rate 0.5Hz
   - White LED

ZRPB/R	Conventional Raptor Outdoor Sounder Beacon, Red Plastic, White Flash	330s/03

Notes:

1. Meets the requirements of EN 54-3 at the following tones:
   - Tone 0: 800Hz and 970Hz, 500ms each
   - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop
2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following:
   - Coverage volume W 5.1 - 7.25
   - Flash rate 0.5Hz
   - White LED

ZRPB/W	Conventional Raptor Outdoor Sounder Beacon, White Plastic, White Flash	330s/04

Notes:

1. Meets the requirements of EN 54-3 at the following tones:
   - Tone 0: 800Hz and 970Hz, 500ms each
   - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop
2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following:
   - Coverage volume W 5.1 - 7.25
   - Flash rate 0.5Hz
   - White LED

MKII-AXTB/R	Zeta Addressable Xtratone Type A Wall Sounder Beacon, Red Plastic, White Flash	330s/05

Notes:

1. Meets the requirements of EN 54-3 at the following tones:
   - Tone 0: 800Hz and 970Hz, 500ms each
   - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop
2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following:
   - Coverage volume W 3.1 - 9.1
   - Flash rate 0.5Hz
   - White LED

MKII-AXTB/W	Zeta Addressable Xtratone Type A Wall Sounder Beacon, White Plastic, White Flash	330s/06

	Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.1 -9.1 - Flash rate 0.5Hz - White LED	
ZRAPB/R	Zeta Addressable Raptor Type B Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.0 - 8.7 - Flash rate 0.5Hz - White LED	330s/07
ZRAPB/W	Zeta Addressable Raptor Type B Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.0 - 8.7 - Flash rate 0.5Hz - White LED	330s/08

Bases/Detectors
MKII-CB Shallow base
MKII-AOP Fyreye II Addressable optical smoke detector
MKII-AHR Fyreye II Addressable A1R heat detector
MKII-AHF Fyreye II Addressable A2S heat detector
MKII-AOH Fyreye II Addressable optical and heat detector
Standard Shallow Back Box for Type A
Deep Back Box for Type B
Weatherproof Deep Back Box with additional silicon gasket for Type B

Certificate No: 330y to EN 54-3:2014 + A1:2019

Audible Warning Devices

Product Name	Description	LPCB Ref. No
ZT-BELL/6	Zeta 24V Bell with 6" Gong, Red, Shallow Base	330y/01
ZT-BELL/6/D	Zeta 24V Bell with 6" Gong, Red, Deep Base	330y/01
ZT-BELL/6/WP	Zeta 24V Bell with 6" Gong, Red, Weatherproof Base	330y/01

Bases/Detectors

Standard Shallow Back Box for Type A

Deep Back Box for Type B

Weatherproof Deep Back Box with additional silicon gasket for Type B

COMMERCIAL DETECTORS

There are many types of detectors on the market designed to work on different principles and fire parameters (e.g. smoke, flame radiation, convective heat etc). The selection of a detector for a particular area or application should be based on a number of factors including the following:

- The nature of the fire hazard
- The speed of response required
- The need to minimize false alarms

There are other factors to be taken into account such as architecture of the building, ease of maintenance and cost, etc.

Guidance on the selection of appropriate types of detectors should be sought from the applicable installation rule or code of practice (e.g. BS 5839-1). Where a particular type of detector is not covered by the installation rule or code of practice then guidance should be sought from the manufacturers literature. In any case, account should be given to the notes or limitations given with the listed detector in this section.

This section lists fire detectors approved for use in fire detection and fire alarm systems in buildings.

The initial approval and continued approval processes for detectors are outlined in scheme document SD021.

The list includes detectors certified to recognised standards or to special test schedules which are developed by LPCB for detector types where suitable standards are not available or were not available at the time of the evaluation.

Products listed in this section have been approved to:

- EN 54-5 *Heat detectors - point detectors*
- EN 54-7 *Smoke detectors - point detectors using scattered light, transmitted light or ionisation*
- EN 54-10 *Flame detectors - point detectors*
- EN 54-12 *Smoke detectors - line detectors using an optical light beam*
- EN 54-20 *Aspirating smoke detectors*
- EN 54-25 *Components using radio links*
- ISO7240-5 *Point -type heat detectors*
- ISO7240-7 *Point-type smoke detectors using scattered light, transmitted light or ionization*
- ISO7240-12 *Line type smoke detectors using transmitting light beam*
- ISO7240-15 *Multisensor fire detectors*
- ISO 7240-6 *Carbon monoxide fire detectors using electro-chemical cells and heat sensors.*
- CEA 4021 *Requirements and test methods for multisensor detectors, which respond to smoke and heat, and smoke detectors with more than one smoke sensor*
- LPS 1265-1.1 *Requirements and Testing Procedures for the LPCB Approval and Listing of Carbon Monoxide Fire Detectors Using Electrochemical Cells*
- LPS 1274-1.0 *Testing Procedures for the LPCB Approval and Listing of Carbon Monoxide /Heat Multisensor Fire Detectors Using Electrochemical Cells*
- LPS 1279-1.0 *Testing Procedures for the LPCB Approval and Listing of Point Multisensor Fire Detectors using Optical or Ionization Smoke Sensors and Electrochemical Cell CO Sensors and, optionally, Heat Sensors*
- LPS 1280-1.0 *Testing Procedures for the LPCB Approval and Listing of Duct Smoke Detectors using Point Smoke Detectors*

Approval can also be obtained for other detection principles not detailed above. In such circumstances, LPCB can develop test criteria to evaluate products, which in time may be used for the development of standards.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. The bases with which a detector has been evaluated and shown to meet the relevant standards are listed with each detector. Bases are not approved/certificated in their own right unless they are combined with another device (e.g. short circuit isolator or sounder).
2. Since LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

5063 Commercial Circle, Concord, CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426b-(cl-6) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-HD	Addressable Heat Detector (Base PYR-FA-CHA-DB) (Branded as Pyronics) Notes: Meets the requirements of EN 54-5 for Category A2	1426b/01

Base:

PYR-FACHA-DB

Certificate No: 1426c-(cl-6) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-SD	Addressable Smoke Detector (PYR-FA-CHA-DB Base) (Branded as Pyronics) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1426c/01

Base:

PYR-FA-CHA-DB

Certificate No: 1426k-(cl-4) to EN 54-5:2017 + A1:2018, EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-MD	Analogue Addressable Optical/Heat Multi-sensor Detector (Base PYR-FA-CHA-DB) (Branded as Pyronics) Notes: 1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2. 2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1	1426k/01

Base

PYR-FA-CHA-DB

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne, NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928ab-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
Axis-OPX	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (Axis-MB base)	928ab/01

Note:

1. Meets the requirements of EN 54-7 at the following sensitivity settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3 Optical only level 4 - Low

Bases

Axis-MB Mounting Base

Certificate No: 928ac-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-17: 2005 & CEA 4021: 2003

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
Axis-OHX	Addressable Multi-Criteria Detector with Short Circuit Isolator (Axis-MB base)	928ac/01
	Notes:	
	1. Meets the requirements of EN 54-5 & EN 54-7 at the following	
	settings:	
	Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response	
	2. Meets the requirements of EN 54-5 at the following settings:	
	Category A1R heat only response	
	3. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Bases

20-AB100-ADV Mounting base

20-VB100-ADV Mounting base (with link resistor)

Axis-MB Mounting Base

Certificate No: 928ad-(cl-1) to EN 54-5:2017+A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
Axis-HTX	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (Axis-MB base)	928ad/01
	Note:	
	1. Meets the requirements of EN 54-5 at Category A1R and Category BS	

Bases

Axis-MB Mounting Base

Certificate No: 928ae-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
Axis-OP	Addressable Photoelectric Smoke Detector (Axis-MB base) Note: 1.Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ae/01

Bases

Axis-MB Mounting Base

Certificate No: 928af-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA4021:2003

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
Axis-OH	Addressable Photoelectric Smoke Detector & Heat Detector (Axis-MB Base) Notes: 1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 - Low sensitivity	928af/01

Bases

Axis-MB Mounting Base

Certificate No: 928ag-(cl-1) to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
Axis-HT	Addressable Category P Heat Detector (Axis-MB base) Note: 1. Meets the requirements of EN 54-5 for Category A1R and Category BS	928ag/01

Bases

Axis-MB Mounting Base

Certificate No: 928d-(cl-5) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
20-AS3500-ADV	Conventional Category P, heat detector (20-AB100-ADV, 20-ABR100-ADV, 20-ABDR100-ADV, 20-ABS100-ADV, 20-ABSR100-ADV and 20-ABSRD100-ADV) **Note:** 1. Meets the requirements of EN 54-5 for Category A1R and Category B.	928d/02

Bases

20-AB100-ADV Mounting base

20-VB100-ADV Mounting base (with link resistor)

20-ABR100-ADV Universal adaptor base with resistor

20-ABDR100-ADV Universal adaptor base with resistor and Schottky diode

20-ABS100-ADV Deep adaptor base

20-ABSR100-ADV Deep adaptor base with resistor

20-ABSRD100-ADV Deep adaptor base with resistor and Schottky diode

WAB100 Wireless adaptor base

Axis-MB Mounting Base

Certificate No: 928e-(cl-5) to EN 54-7: 2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
20-AS1000-ADV	Conventional photo smoke detector (20-AB100-ADV, 20-ABR100-ADV, 20-ABDR100-ADV, 20-ABS100-ADV, 20-ABSR100-ADV and 20-ABSRD100-ADV)	928e/02

Bases

20-AB100-ADV Mounting base

20-VB100-ADV Mounting base (with link resistor)

20-ABR100-ADV Universal adaptor base with resistor

20-ABDR100-ADV Universal adaptor base with resistor and Schottky diode

20-ABS100-ADV Deep adaptor base

20-ABSR100-ADV Deep adaptor base with resistor

20-ABSRD100-ADV Deep adaptor base with resistor and Schottky diode

Axis-MB Mounting Base

Certificate No: 928j-(cl-1) to EN 54-5:2017+A1:2018, EN 54-25:2008

Heat Detectors

Product Name	Description	LPCB Ref. No
Axis-RHT	Axis Wireless Addressable Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases

WAB100 Wireless Adaptor Base

Certificate No: 928k-(cl-1) to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
Axis-ROP	Axis Wireless Addressable Optical Smoke Detector (WAB100 Base)	928k/02
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
Axis-ROH	Axis Wireless Addressable Multicriteria Detector (WAB100 Base)	928m/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R	
	2. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	3. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Bases:

WAB100 Wireless Adaptor Base

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928a-(cl-3) to 54-5: 2017 + A1: 2018 and EN 54 -17: 2005

Product Name	Description	LPCB Ref. No
AT420A	Analogue Addressable Category P Heat Detector with Short-Circuit Isolator (BA400 Base)	928a/02
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	

Bases

BA100 Mounting base

BA101 Deep adaptor base

WAB100 Wireless Adaptor Base

BA400 Low Profile Adaptor Base

Certificate No: 928b-(cl-3) to 54-7: 2018 and EN 54 -17: 2005

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
AT410A	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (BA400 Base)	928b/02
	Note:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Bases

BA100 Mounting base

BA101 Deep adaptor base

BA400 Low Profile Adaptor Base

WAB 100 Wireless Adaptor Base

Certificate No: 928c-(cl-3) to EN 54-5: 2017+ A1: 2018, EN 54-7: 2018, EN 54 -17: 2005 & CEA4021: 2003

Multi-sensor Detectors

Product Name	Description	LPCB Ref. No
AT430A	Addressable Multi-Criteria Detector with Short-Circuit Isolator (BA400 base)	928c/02
	Notes:	
	1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following	
	settings:	
	Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with CategoryA1 heat response	
	2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:	
	CategoryA1R heat only response	
	3. Meets the requirements of EN 54-7 at the following settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Bases

BA100 Mounting base

BA400 Low Profile Adaptor Base

Certificate No: 928d-(cl-3) to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
AT120CM	Conventional Category P Heat Detector (BA100 and BA101 bases) Note: Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02
AT420AS	Addressable Category P Heat Detector (BA400 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

BA100 Mounting Base

BA101 Deep Adaptor Base

BA400 Low Profile Adaptor Base

Certificate No: 928e-(cl-3) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
AT110CM	Conventional Photo Smoke Detector (BA100 and BA101 Bases)	928e/02
AT410AS	Addressable Photoelectric Smoke Detector (BA400 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03

Bases

BA100 Mounting Base

BA101 Deep Adaptor Base

BA400 Low Profile Adaptor Base

Certificate No: 928f-(cl-3) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
AT430AS	Addressable Photo & Category A1R Heat Detector (BA400 Base) Notes 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - thermally enhanced smoke detection with Category A1 heat Multi criteria level 2 - thermally enhanced smoke detection with Category A1 heat response	928f/02

Multi criteria level 3 - thermally enhanced smoke detection with Category A1 heat response

Multi criteria level 4 (least sensitive) - thermally enhanced smoke detection with Category A1 heat

2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:

Heat detection only Category A1R

3. Meets the requirements of EN 54-7 at the following settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Bases

BA400 Low Profile Adaptor Base

Certificate No: 928j-(cl-2) to EN 54-5:2017+A1:2018, EN 54-25:2008

Heat Detectors

Product Name	Description	LPCB Ref. No
ATW420A	Wireless Libra Addressable Category P Heat Detector (WAB100 Base)	928j/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R and BS	
	2. The device must be used with the following battery type only:	
	- CR123A (3 Vdc) - Primary and Secondary Battery	

Bases

WAB100 Wireless Adaptor Base

Certificate No: 928k-(cl-2) to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
ATW410A	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)	928k/02
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	2. The device must be used with the following battery type only:	
	- CR123A (3 Vdc) - Primary and Secondary Battery	

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ATW430A	Wireless Libra Addressable Multicriteria Detector (WAB100 Base)	928m/02

Notes:

1. Meets the requirements of EN 54-5 for Category A1R

2. Meets the requirements of EN 54-7 at the following sensitivity settings:

Level 1 - High

Level 2 - Normal

Level 3 - Low

3. The device must be used with the following battery type only:

CR123A (3 Vdc) - Primary and Secondary Battery

Bases:

WAB100 Wireless Adaptor Base

Agni Controls

2/235 Kundrathur High Road, Gerugambakkam, Chennai, 600122, India
E-mail: selva@agnicontrols.com • Website: www.balafire.com

Certificate No: 1259a to EN 54-10: 2002

Flame Detectors

Product Name	Description	LPCB Ref. No
IH226	Conventional UV/IR Flame Detector (IHMB01-XY Base) Note: Meets the requirements of EN 54-10:2002 at Class 1 only	1259a/01
IH8228	Flame Proof Triple Sensor UV-IR Flame Detector (IHMB09-XY Base) Note: Meets the requirements of EN 54-10:2002 at Class 1 only	1259a/02

Bases

IHMB01-XY Swivel Mounting Base

IHMB09-XY Base

AGNI Devices PVT Ltd

B-21, DDA Keshopur Industrial Area, Vikas Puri, New Delhi, 110018, India
Tel: +91 11 28335624
E-mail: info@agnidevices.com

Certificate No: 1330a-(cl-13) to EN 54-12: 2015

Smoke Detectors

Product Name	Description	LPCB Ref. No
FL-433/BEAM	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity	1330a/01

2. Suitable for use at the following separation ranges:

- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)
- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)
- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)
- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

es
Mounting Bracket
FL-433/1R (1 x Mirror)
FL-433/4R (4 x Mirror)

Certificate No: 1330b-(cl-8) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FL-433/PD	Intelligent Smoke Detector (FL-433/SB Base)	1330b/01

Base

Certificate No: 1330c-(cl-8) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FL-433/HD	Intelligent Heat Detector (FL-433/SB Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base
FL-433/SB

Certificate No: 1330j-(cl-7) to EN 54-29: 2015

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
FL-433/PHD	Intelligent Multi-sensor Fire Detector (FL-433/SB Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

Base
FL-433/SB

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174a-(cl-5) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SC-6623	Conventional Optical Smoke Detector (SB-6611 base) (branded as SECURE) Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only	1174a/01

SI-6627	Addressable Optical Smoke Detector (SB-6617 base) (branded as SECURE) Note: 1. Meets the requirements of EN 54-7 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Bases

SB-6611 Base

SB-6617 Addressable mounting base

Certificate No: 1174b-(cl-5) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SC-6633	Conventional Heat Detector (SB-6611 base) (branded as SECURE) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01
SI-6637	Addressable Heat Detector (SB-6617 base) (branded as SECURE) Note: 1. Meets the requirements of EN 54-5 at Category A1R and A2	1174b/02

Bases

SB-6611 Base

SB-6617 Base

Certificate No: 1174f-(cl-1) to EN 54-5:2017 + A1:2018; EN 54-7:2018; CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SI-6647	Addressable Smoke and Heat Detector (SB-6617 base) (branded as SECURE) Notes: 1) Meets the requirements of EN 54-5 at Category A1R and A2 2) Meets the requirements of EN 54-7 at the following sensitivity settings - Smoke Mode 2 and A1R - Smoke Mode 2 and A2 - Smoke Mode 2 (Smoke only), heat disabled	1174f/01

Bases

SB-6617 Base

Ampac Pty Ltd

7 Ledgar Road, Balcatta, 6021, Australia
Tel: +618 (9242) 3333
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010aq-(cl-1) to EN 54-5: 2017 + A1: 2018 + LPS 1274: 2005 + LPS 1265: 2004

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
58000-305AMP	Analogue addressable CO/heat multisensor detector (45681-210AMP, standard intelligent mounting base) Notes: 1. Approved with the following mode configurations:- Mode 1 30 ppm with high thermal enhancement (most sensitive) Mode 2 33 ppm with CO only Mode 3 40 ppm with low thermal enhancement (nominal sensitivity) Mode 4 45 ppm with high thermal enhancement (least sensitive) Mode 5 heat only Categpry A1R 2. Mode 1 , 3, and 4 are approved to LPS 1274:2005 and EN 54-5 3. Mode 2 is approved to LPS 1265:2004 4. Mode 5 is approved to EN 54-5 Conditions of approval include; a) The 58000-305AMP should only be installed in accordance with the manufacturer s recommendations. b) The 58000-305AMP should not be set only as a carbon monoxide fire detector where there is a specific risk of rapid burning/flaming fires. c) Refer to technical publication MAN3038-1 for limitations on the use of carbon monoxide fire detection.	010aq/01

Bases

45681-210AMP XP95 mounting base

Certificate No: 010bb-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-7:2018 & EN 54:17: 2005 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SA5100-700AMP	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010bb/01

Bases

45681-210AMP XP95 mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

Certificate No: 010bc-(cl-1) to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
SA5100-600AMP	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01

Bases

SA5000-200AMP Addressable XPERT 8 mounting base

45681-210AMP XP95 mounting base

Certificate No: 010bd-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
SA5100-400AMP	Soteria Analogue Addressable Category P Heat Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases

45681-200AMP Series 60/65 mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

Certificate No: 010be-(cl-1) to EN 54-5:2017 +A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SA5000-700AMP	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010be/01

Bases

45681-210AMP XP95 mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

Certificate No: 010bf-(cl-1) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SA5000-600AMP	Soteria Analogue Addressable Optical Smoke Detector (SA5000-200AMP and 45681-210AMP bases)	010bf/01

Certified at the following settings:

Mode 1: High sensitivity smoke detector with fast response time

Mode 2: High sensitivity smoke detector with standard response time

Mode 3: Standard smoke sensitivity with fast response time

Mode 4: Standard smoke sensitivity with standard response time

Mode 5: Medium-Low sensitivity smoke detector with fast response time

Bases

SA5000-200AMP Addressable XPERT 8 mounting base

45681-210AMP XP95 mounting base

Certificate No: 010bg-(cl-1) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SA5000-400AMP	Soteria Analogue Addressable Category P Heat Detector	010bg/01
	(SA5000-200AMP and 45681-210AMP bases)	
	Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	

Bases

45681-200AMP Series 60/65 mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

Certificate No: 010bk-(cl-1) to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
FL6100-600AMP	Soteria Dimension Specialist Optical Detector (FL5000-200AMP)	010bk/01
FL5100-600AMP	Soteria Dimension Optical Detector (FL5000-200AMP)	010bk/02
	Note:	
	1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	

Bases

FL5000-200AMP Soteria Dimension Backbox

Certificate No: 010h to

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
58000-700AMP	Discovery Analogue Addressable Multisensor Detector	010h/01
	(45681-209 and 45681-210 bases)	
	Notes:	
	1. Certified at the following settings:	
	Mode 1 - High sensitivity smoke detector with standard heat enhancement	
	Mode 2 - Smoke detection only	
	Mode 3 - Medium sensitivity smoke detector with standard heat enhancement	
	Mode 4 - Low sensitivity smoke detector with high heat enhancement	
	Mode 5 - Class A1 heat detector	
	Also approved in conventional alarm modes 1, 2, 3, 4 and 5	

2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.

Bases

45681-209AMP XP95/Discovery standard deep mounting base

45681-210AMP XP95 mounting base

Certificate No: 010m-(cl-1) to EN54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
55000-885AMP	Analogue addressable multisensor detector (45681-209AMP and 45681-210AMP mounting base) Approved with Apollo XP95 and S90 digital communication protocols that have been configured for the XP95 multisensor detector in accordance with manufacturers instructions.	010m/01

Bases

45681-209AMP XP95/Discovery standard deep mounting base

45681-210AMP XP95 mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

46581-209 XP95/Discovery standard deep mounting base

45681-210 XP95 Mounting base

Certificate No: 010p-(cl-2) to EN54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
55000-122AMP	Series 65 Conventional Category A1R heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category A1R*	010p/06
55000-127AMP	Series 65 Conventional Category BR heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category BR*	010p/09
55000-132AMP	Series 65 Conventional Category CR heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category CR*	010p/12
55000-137AMP	Series 65 Conventional Category CS heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category CS*	010p/15
55000-420AMP	XP95 Analogue Addressable Category A2S Heat Detector (45681-209AMP and 45681-210AMP bases) Notes: 1. Meets the requirements of EN54: Part 5 at Category A2S 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/22
58000-400AMP	Discovery Analogue Addressable Category P Heat Detector (45681-209AMP and 45681-210AMP bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: - Category A1R in mode 1 and in conventional mode	010p/03

- Category A2 in mode 2 and in conventional mode

- Category A2S in mode 3 and in conventional mode

- Category CR in mode 4 and in conventional mode

- Category CS in mode 5 and in conventional mode

2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.

Bases

45681-200AMP Series 60/65 mounting base

45681-201AMP Series 60/65 diode mounting base

45681-245AMP Series 65 relay mounting base

45681-246AMP Series 65 auxiliary relay mounting base

45681-247AMP Series 65 EOL 12 Volt mounting base

45681-248AMP Series 65 EOL 24 Volt mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

45681-209AMP XP95/Discovery standard deep mounting base

45681-210AMP XP95 Mounting base

Notes:

[1] Also certificated for use with 45681-245AMP, 45681-246AMP, 45681-247AMP, 45681-248AMP and 45681-201AMP mounting bases.

Certificate No: 010q to EN 54-7:2018
Certificate No: 010q-(cl-2) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
55000-217AMP	Series 65 Conventional ionisation smoke detector - Standard (45681-200AMP mounting base) [1]	010q/06
55000-220AMP	Series 65 Conventional integrating ionisation smoke detector - Standard (45681-200AMP mounting base) [1]	010q/09
55000-317AMP	Series 65 Conventional optical smoke detector - Standard (45681-200AMP mounting base) [1]	010q/12
58000-600AMP	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 mounting bases) Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
55000-620AMP	XP95 Analogue Addressable Optical Smoke Detector (45681-209AMP and 45681-210AMP bases) Note: 1. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/19

Bases

45681-200AMP Series 60/65 mounting base

45681-201AMP Series 60/65 diode mounting base

45681-245AMP Series 65 relay mounting base

45681-246AMP Series 65 auxiliary relay mounting base

45681-247AMP Series 65 EOL 12 Volt mounting base

45681-248AMP Series 65 EOL 24 Volt mounting base

SA5000-200AMP Addressable XPERT 8 mounting base

45681-210AMP XP95 mounting base

45681-209AMP XP95/Discovery standard deep mounting base

FL5000-200AMP Soteria Dimension Backbox

Notes:

[1] Also certificated for use with 45681-245AMP, 45681-246AMP, 45681-247AMP, 45681-248AMP and 45681-201AMP mounting bases.

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412
E-mail: enquiries@apollo-fire.co.uk

Certificate No: 010an to EN 54-10: 2002 + A1:2005

Flame Detectors

Product Name	Description	LPCB Ref. No
55000-022	XP95 intelligent UV flame detector (45681-209 and 45681-210) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/01
55000-023	XP95 intelligent UV/IR^2 flame detector (45681-209 and 45681-210) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/02
55000-024	XP95 intelligent IR^3 flame detector (45681-209 and 45681-210) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/03
55000-025	S65 conventional UV flame detector (45681-200 and 45681-201) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/04
55000-019	Conventional IR^3 Flame Detector (29600-203) **Note:** Meets EN 54-10: 2002 at Class 1 only	010an/05
55000-060	Conventional IR² Flame Detector (29600-203) **Note:** Meets EN 54-10: 2002 at Class 1 only	010an/06
55000-061	Conventional IR² (Exd) Flameproof Flame Detector (29600-203) **Note:** Meets EN 54-10: 2002 at Class 1 only	010an/07
55000-062	Conventional IR^3 (Exd) Flameproof Flame Detector (29600-203) **Note:** Meets EN 54-10: 2002 at Class 1 only	010an/08
55000-063	Conventional IR^3 Intrinsically Safe Flame Detector (29600-203) **Note:**	010an/09

	Meets EN 54-10: 2002 at Class 1 only	
55000-064	Conventional UV/IR^2 Flame Detector (29600-203) **Note:** Meets EN 54-10: 2002 at Class 1 only	010an/10
55000-065	Conventional UV/IR^2 (Exd) Flameproof Flame Detector (29600-203) **Note:** Meets EN 54-10: 2002 at Class 1 only	010an/11
55000-020	Analogue Addressable IR^3 Flame Detector (29600-203) Note: Meets EN 54-10:2002 at Class 1 only	010an/13
55000-021	Analogue Addressable IR^3 (Exd) Flameproof Flame Detector (29600-203) Note: Meets EN 54-10:2002 at Class 1 only	010an/14
55000-280	Analogue Addressable IR^2 Flame Detector (29600-203) Note: Meets EN 54-10:2002 at Class 1 only	010an/15
55000-295	Analogue Addressable IR^2 (Exd) Flameproof Flame Detector (29600-203) Note: Meets EN 54-10:2002 at Class 1 only	010an/16

Bases

45681-200 Mounting Base

45681-201 Mounting Base with Diode

45681-209 Deep Base

45681-210 Mounting Base

29600-203 Adjustable Mounting Base

Ancillaries

29600-203 Mounting Bracket

Certificate No: 010aq to LPS 1274: 2005, EN 54-5: 2017 + A1: 2018 and LPS 1265: 2004

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
58000-305	Analogue addressable CO/heat multisensor detector (45681-210, standard intelligent mounting base) Notes: 1. Approved with the following mode configurations:- Mode 1 30 ppm with high thermal enhancement (most sensitive) Mode 2 33 ppm with CO only Mode 3 40 ppm with low thermal enhancement (nominal sensitivity) Mode 4 45 ppm with high thermal enhancement (least sensitive) Mode 5 heat only Category A1R	010aq/01

2. Mode 1 , 3, and 4 are approved to LPS1274:2005 and EN 54-5

3. Mode 2 is approved to LPS 1265:2004

4. Mode 5 is approved to EN 54-5

Conditions of approval include;

a) The 58000-305 should only be installed in accordance with the manufacturers recommendations.

b) The 58000-305 should not be set only as a carbon monoxide fire detector where there is a specific risk of rapid burning/flaming fires.

c) Refer to technical publication PP2382 for limitations on the use of carbon monoxide fire detection.

Base:

45681-210 Standard intelligent mounting base

Certificate No: 010bb to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17: 2005 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SA5100-700	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010bb/01
SA5100-700LIM	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010bb/01
SA5100-760	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector with Short Circuit Isolator (Black body) (SA5000-200, 45681-210 and SA5000-204 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010bb/02

Bases:

45681-210 XP95 mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

SA5000-204 XPERT 8 Base - Black

Certificate No: 010bc to EN 54-7:2018 and EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
SA5100-600	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01
SA5100-600LIM	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01

Bases:

45681-210 XP95 mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

Certificate No: 010bd to EN 54-5:2017 + A1:2018 and EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
SA5100-400	Soteria Analogue Addressable Category P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01
SA5100-400LIM	Soteria Analogue Addressable Category P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases:

45681-210 XP95 mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

Certificate No: 010be to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SA5000-700	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector	010be/01
	(SA5000-200 and 45681-210 bases)	
	Certified at the following settings:	
	Mode 1: High sensitivity smoke detector with high heat enhancement	
	Mode 2: Standard smoke sensitivity only	
	Mode 3: Medium sensitivity smoke detector with medium heat enhancement	
	Mode 4: Low sensitivity smoke detector with high heat enhancement	
	Mode 5: Category A1R heat detector	

Bases:

45681-210 XP95 mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

Certificate No: 010bf to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SA5000-600	Soteria Analogue Addressable Optical Smoke Detector	010bf/01
	(SA5000-200 and 45681-210 bases)	
	Certified at the following settings:	
	Mode 1: High sensitivity smoke detector with fast response time	
	Mode 2: High sensitivity smoke detector with standard response time	
	Mode 3: Standard smoke sensitivity with fast response time	
	Mode 4: Standard smoke sensitivity with standard response time	
	Mode 5: Medium-Low sensitivity smoke detector with fast response time	

Bases:

SA5000-200 Addressable XPERT 8 Mounting Base

45681-210 XP95 mounting base

Certificate No: 010bg to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SA5000-400	Soteria Analogue Addressable Category P Heat Detector	010bg/01
	(SA5000-200 and 45681-210 bases)	
	Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	

Bases:

45681-210 XP95 mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

Certificate No: 010bk to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No

FL6100-600	Soteria Dimension Specialist Optical Detector (FL5000-200)	010bk/01
FL5100-600	Soteria Dimension Optical Detector (FL5000-200) Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	010bk/02
FL5100-660	Soteria Dimension Optical Detector Black (FL5000-200) Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	010bk/03

Bases:

FL5000-200 Soteria Dimension Backbox

Certificate No: 010bm to EN 54-5:2017 + A1:2018, EN 54-7:2018 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
58000-701	Analogue Addressable Multisensor Detector (45681-210) Notes: 1. Certified at the following settings for EN 54-29: Mode 1 - Multisensor 2. Certified at the following settings for EN 54-7: Mode 2 - Optical Mode 3 - Multisensor Mode 4 Multisensor 3. Certified at the following settings for EN 54-5: Mode 5 Heat A1R Also approved in conventional alarm modes 1, 2, 3, 4 and 5 4. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010bm/01

Bases:

45681-210 XP95 mounting base

Certificate No: 010bn to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-29: 2015, EN 54-17: 2005

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
SA5100-710	Soteria Multi-Sensor Detector (Dual Optical/Heat) with Short Circuit Isolator (SA5000-200, 45681-142, 45681-210 bases) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Mode 5: Heat Category A1R 2. Certified at the following sensitivity settings for EN 54-7: - Mode 1: High smoke sensitivity - Multi-sensor - Mode 2: Normal smoke sensitivity - Optical	010bn/01

- Mode 3: Normal smoke sensitivity - Multi-sensor

- Mode 4: Low smoke sensitivity - Multi-sensor

3. Certified at the following settings for EN 54-29:

- Mode 1: High smoke sensitivity - Multi-sensor

- Mode 3: Normal smoke sensitivity - Multi-sensor

- Mode 4: Low smoke Multi-sensor

Bases:
53832-070 Remote LED
SA5000-200 XPERT 8 Base
45681-142 XP95 Base Sounder VAD
45681-210 XPERT 7 Base

Certificate No: 010bp to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-31:2014, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
SA5100-810	Soteria Tri-Sensor Detector (Dual Optical/Heat/CO) (SA5000-200, 45681-142, 45681-210 bases) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Mode 1: High sensitivity - (Category A1R) - Mode 2: Clean environments - (Category A1R) 2. Certified at the following sensitivity settings for EN 54-7: - Mode 1: High sensitivity - Mode 2: Clean environments 3. Certified at the following settings for EN 54-31: - Mode 1: High sensitivity - Mode 2: Clean environments - Mode 3: General purpose - Mode 4: Harsh environments - Mode 5: Low sensitivity - Fixed for CO	010bp/01

Bases:

SA5000-200 Addressable XPERT 8 Mounting Base

45681-142 XP95 Base Sounder VAD

45681-210 XP95 mounting base

53832-070 Remote LED

Certificate No: 010bq to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-29:2015 & EN 54-17:2005

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
SA5100-710	Soteria Multi-Sensor Detector (Dual Optical/Heat) (SA5000-200, 45681-142, 45681-210 bases) Notes: 1. Meets the requirements of EN 54-5 for the following setting:	010bq/01

- Mode 5: Heat Category A1R

2. Certified at the following sensitivity settings for EN 54-7:

- Mode 1: High smoke sensitivity - Multi-sensor

- Mode 2: Normal smoke sensitivity - Optical

- Mode 3: Normal smoke sensitivity - Multi-sensor

- Mode 4: Low smoke sensitivity - Multi-sensor

3. Certified at the following settings for EN 54-29:

- Mode 1: High smoke sensitivity - Multi-sensor

- Mode 3: Normal smoke sensitivity - Multi-sensor

- Mode 4: Low smoke Multi-sensor

Bases:
SA5000-200 Addressable XPERT 8 Mounting Base
45681-142 XP95 Base Sounder VAD
45681-210 XP95 mounting base
53832-070 Remote LED

Certificate No: 010h to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
58000-700 Discovery	Analogue addressable multisensor detector (45681-209 and 45681-210 mounting base) Note: Certificated at the following settings. Mode 1 - High sensitivity smoke detector with standard heat enhancement. Mode 2 - Smoke detection only. Mode 3 - Medium sensitivity smoke detector with standard heat enhancement. Mode 4 - Low sensitivity smoke detector with high heat enhancement. Mode 5 - Class A1 heat detector. Also Certificated in conventional alarm modes 1, 2, 3, 4 and 5. Certificated with Discovery XP95 and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010h/01
58000-700SIL	Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

Bases:

45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base

Certificate No: 010m to EN 54-7:2018 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
55000-885	XP95 Analogue addressable multisensor detector (45681-209 and 45681-210 mounting base) Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010m/01

Bases:

45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base

Certificate No: 010p to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
55000-121	Series 65 Conventional Category A1R heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category A1R Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/05
55000-122	Series 65 Conventional Category A1R heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category A1R Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/06
55000-126	Series 65 Conventional Category BR heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category BR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/08
55000-127	Series 65 Conventional Category BR heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category BR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/09
55000-131	Series 65 Conventional Category CR heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/11
55000-132	Series 65 Conventional Category CR heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/12
55000-136	Series 65 Conventional Category CS heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CS Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-	010p/14

	201 mounting bases	
55000-137	Series 65 Conventional Category CS heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CS Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/15
58000-400	Discovery Analogue addressable heat detector (45681-209 and 45681-210 mounting base) Note: Meets the requirements of EN 54: Part 5 for the following settings Category A1R in mode 1 and in conventional mode. Category A2 in mode 2 and in conventional mode. Category A2S in mode 3 and in conventional mode. Category CR in mode 4 and in conventional mode. Category CS in mode 5 and in conventional mode. Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols when the Discovery heat detector has been configured in accordance with manufacturer's instructions.	010p/03
55000-400	XP95 Analogue addressable Category A2S heat detector (45681-209 and 45681-210 mounting base) Certificated with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery heat detector in accordance with manufacturers instructions.	010p/20
55000-401	XP95 Analogue addressable Category CS heat detector (45681-209 and 45681-210 mounting base) Certificated with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery heat detector in accordance with manufacturers instructions.	010p/21
58000-400SIL	Discovery Analogue Addressable Heat Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: - Category A1R in mode 1 and in conventional mode - Category A2 in mode 2 and in conventional mode - Category A2S in mode 3 and in conventional mode - Category CR in mode 4 and in conventional mode - Category CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/03
55000-420PRC	XP95 Analogue Addressable Category A2S Heat Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 5 at Category A2S 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/22

Bases:

45681-200 Series 60 mounting base

45681-200 Series 60/65 Mounting Base

45681-201 Series 60 diode mounting base

45681-201 Series 60/65 Diode Mounting Base

45681-207 Series 60 intrinsically safe mounting base

45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base

45681-215 XP95 intrinsically safe mounting base

45681-245 Series 65 Relay mounting base

45681-246 Series 65 Auxiliary relay mounting base

45681-247 Series 65 EOL 12 Volt mounting base

45681-248 Series 65 EOL 24 Volt mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

TimeSaver bases with Apollo Approval Reference* OB

TimeSaver LX bases with Apollo Approval Reference* OL

TimeSaver diode bases with Apollo Approval Reference* OD

TimeSaver relay bases with Apollo Approval Reference* OR

TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)

TimeSaver deep bases with Apollo Approval Reference*

EB: ORB-MB-00019-APO TimeSaver deep base

ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)

ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

53832-070 Remote LED

SA5000-200 XPERT 8 Base

45681-142 XP95 Base Sounder VAD

53832-070 Remote LED

* The Apollo Approval Reference Number identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010q to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
55000-216 Series 65	Conventional ionisation smoke detector - Flashing LED (45681-200 mounting base) Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/05
55000-217 Series 65	Conventional ionisation smoke detector - Standard (45681-200 mounting base) Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/06
55000-220 Series 65	Conventional integrating ionisation smoke detector - Standard (45681-200 mounting base) Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/09
55000-315 Series 65	Conventional optical smoke detector - Flashing LED/Reed switch (45681-200 mounting base) Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/10
55000-316 Series 65	Conventional optical detector - Flashing LED (45681-200 mounting base) Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/11
55000-317 Series 65	Conventional optical smoke detector - Standard (45681-200 mounting base) Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12

58000-600 Discovery	Analogue addressable photoelectric smoke detector (45681-209 and 45681-210 mounting base)[2] Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.	010q/03
55000-600 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base)[2] Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.	010q/18
55000-620 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base)[2] Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.	010q/19
55000-660 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base)[2] Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.	010q/21
55000-540 XP95 IS	Analogue addressable intrinsically safe ionisation smoke detector (45681-215 mounting base) *Certified with Apollo Series 90 and XP95 digital communications protocol*	010q/23
58000-600SIL	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. 2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
55000-540SIL	XP95 IS Analogue Addressable Intrinsically Safe Ionisation Smoke Detector (45681-215 base) Note: 1. Certified with Apollo Series 90 and XP95 digital communications protocol.	010q/23

Bases:

45681-200 Series 60 mounting base

45681-200 Series 60/65 Mounting Base

45681-201 Series 60 diode mounting base

45681-201 Series 60/65 Diode Mounting Base

45681-207 Series 60 intrinsically safe mounting base

45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base

45681-215 XP95 intrinsically safe mounting base

45681-245 Series 65 Relay mounting base

45681-246 Series 65 Auxiliary mounting base

45681-247 Series 65 EOL 12 Volt mounting base

45681-248 Series 65 EOL 24 Volt mounting base

45681-500 XPlorer standard mounting base

45681-501 XPlorer remote LED mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

FL5000-200 Soteria Dimension Backbox

TimeSaver bases with Apollo Approval Reference* OB

TimeSaver LX bases with Apollo Approval Reference* OL

TimeSaver diode bases with Apollo Approval Reference* OD

TimeSaver relay bases with Apollo Approval Reference* OR

TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)

ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)

ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo Approval Reference Number identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010r to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
Orbis Category A1R	Heat detectors with Apollo Approval Reference* 00001 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11001-APO Orbis Category A1R heat detector with SensAlert and FasTest ORB-HT-11013-APO Orbis Category A1R heat detector with Flashing LED, SensAlert and FasTest	010r/01
Orbis Category A2S	Heat detectors with Apollo Approval Reference* 00002 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11002-APO Orbis Category A2S heat detector with SensAlert and FasTest ORB-HT-11014-APO Orbis Category A2S heat detector with Flashing LED, SensAlert and FasTest	010r/02
Orbis Category BR	Heat detectors with Apollo Approval Reference* 00003 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11003-APO Orbis Category BR heat detector with SensAlert and FasTest ORB-HT-11015-APO Orbis Category BR heat detector with Flashing LED, SensAlert and FasTest	010r/03
Orbis Category BS	Heat detectors with Apollo Approval Reference* 00004 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11004-APO Orbis Category BS heat detector with SensAlert and FasTest ORB-HT-11016-APO Orbis Category BS heat detector with Flashing LED, SensAlert and FasTest	010r/04
Orbis Category CR	Heat detectors with Apollo Approval Reference* 00005 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11005-APO Orbis Category CR heat detector with SensAlert and FasTest ORB-HT-11017-APO Orbis Category CR heat detector with Flashing LED, SensAlert and FasTest	010r/05
Orbis Category CS	Heat detectors with Apollo Approval Reference* 00006 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11006-APO Orbis Category CS heat detector with SensAlert and FasTest ORB-HT-11018-APO Orbis Category CS heat detector with Flashing LED, SensAlert and FasTest	010r/06

Orbis Category A1S	Heat detectors with Apollo Approval Reference* 00009 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11166-APO Orbis Category A1S heat detector with SensAlert and FasTest ORB-HT-11167-APO Orbis Category A1S heat detector with Flashing LED, SensAlert and FasTest	010r/07
Orbis IS Category A1R	Intrinsically safe heat detectors with Apollo Approval Reference* 50001 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51145-APO Orbis intrinsically safe Category A1R heat detector with SensAlert and FasTest ORB-HT-51146-APO Orbis intrinsically safe Category A1R heat detector with Flashing LED, SensAlert and FasTest	010r/08
Orbis IS Category A2S	Intrinsically safe heat detectors with Apollo Approval Reference* 50002 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51147-APO Orbis intrinsically safe Category A2S heat detector with SensAlert and FasTest ORB-HT-51148-APO Orbis intrinsically safe Category A2S heat detector with Flashing LED, SensAlert and FasTest	010r/09
Orbis IS Category BR	Intrinsically safe heat detectors with Apollo Approval Reference* 50003 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51149-APO Orbis intrinsically safe Category BR heat detector with SensAlert and FasTest ORB-HT-51150-APO Orbis intrinsically safe Category BR heat detector with Flashing LED, SensAlert and FasTest	010r/10
Orbis IS Category BS	Intrinsically safe heat detectors with Apollo Approval Reference* 50004 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51151-APO Orbis intrinsically safe Category BS heat detector with SensAlert and FasTest ORB-HT-51152-APO Orbis intrinsically safe Category BS heat detector with Flashing LED, SensAlert and FasTest	010r/11
Orbis IS Category CR	Intrinsically safe heat detectors with Apollo Approval Reference* 50005 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51153-APO Orbis intrinsically safe Category CR heat detector with SensAlert and FasTest ORB-HT-51154-APO Orbis intrinsically safe Category CR heat detector with Flashing LED, SensAlert and FasTest	010r/12
Orbis IS Category CS	Intrinsically safe heat detectors with Apollo Approval Reference* 50006 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51155-APO Orbis intrinsically safe Category CS heat detector with SensAlert and FasTest ORB-HT-51156-APO Orbis intrinsically safe Category CS heat detector with Flashing LED, SensAlert and FasTest	010r/13
Orbis IS Category A1S	Intrinsically safe heat detectors with Apollo Approval Reference* 50009 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51157-APO Orbis intrinsically safe Category A1S heat detector with SensAlert and FasTest ORB-HT-51158-APO Orbis intrinsically safe Category A1S heat detector with Flashing LED, SensAlert and FasTest	010r/14

Bases:

45681-200 Series 60 mounting base

45681-200 Series 60/65 Mounting Base

45681-201 Series 60 diode mounting base

45681-201 Series 60/65 Diode Mounting Base

45681-207 Series 60 intrinsically safe mounting base

45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base

45681-215 XP95 intrinsically safe mounting base

45681-245 Series 65 Relay mounting base

45681-246 Series 65 Auxiliary relay mounting base

45681-247 Series 65 EOL 12 Volt mounting base

45681-248 Series 65 EOL 24 Volt mounting base

SA5000-200 Addressable XPERT 8 Mounting Base

TimeSaver bases with Apollo Approval Reference* OB

TimeSaver LX bases with Apollo Approval Reference* OL

TimeSaver diode bases with Apollo Approval Reference* OD

TimeSaver relay bases with Apollo Approval Reference* OR

TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)

TimeSaver deep bases with Apollo Approval Reference*

EB: ORB-MB-00019-APO TimeSaver deep base

ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)

ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

53832-070 Remote LED

SA5000-200 XPERT 8 Base

45681-142 XP95 Base Sounder VAD

53832-070 Remote LED

* The Apollo Approval Reference Number identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010s to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
Orbis Optical Smoke Detector Range	Optical Smoke Detector Range (Approved for use with base styles OB, OL, OD, OR, EB, XL and ORB-BA-10008-APO adaptor base) ORB-OP-12001-APO Orbis Optical Smoke Detector with SensAlert, FasTest and DirtAlert ORB-OP-12003-APO Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert ORB-OP-12003-PRC Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert	010s/01
Orbis IS	Intrinsically safe optical smoke detectors with Apollo Approval Reference* 50007 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008-APO adapter base) ORB-OP-52027-APO Orbis intrinsically safe optical smoke detector with	010s/02

SensAlert, FasTest and DirtAlert

ORB-OP-52028-APO Orbis intrinsically safe optical smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert

ORB-OP-52028-PRC Orbis intrinsically safe optical smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert

Bases:

TimeSaver bases with Apollo Approval Reference* OB

TimeSaver LX bases with Apollo Approval Reference* OL

TimeSaver diode bases with Apollo Approval Reference* OD

TimeSaver relay bases with Apollo Approval Reference* OR

TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)

ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)

ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo Approval Reference Number identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010t to EN 54-7: 2018 & CEA 4021: 1999-06

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
Orbis	Multisensor smoke detectors with Apollo Approval Reference* 00008 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-OH-13001-APO Orbis multisensor smoke detector with SensAlert, FasTest and DirtAlert ORB-OH-13003-APO Orbis multisensor smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert	010t/01
Orbis IS	Intrinsically safe multisensor detectors with Apollo Approval Reference* 50008 (Approved for use with base styles OB (+ATEX marking) and ORB-MB-50008-APO adapter base) ORB-OH-53027-APO Orbis intrinsically safe multisensor detector with SensAlert, FasTest and DirtAlert ORB-OH-53028-APO Orbis intrinsically safe multisensor detector with Flashing LED, SensAlert, FasTest and DirtAlert	010t/02

Bases:

TimeSaver bases with Apollo Approval Reference* OB

TimeSaver LX bases with Apollo Approval Reference* OL

TimeSaver diode bases with Apollo Approval Reference* OD

TimeSaver relay bases with Apollo Approval Reference* OR

TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)

ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)

ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo Approval Reference Number identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

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Certificate No: 928a to EN 54-5: 2017 + A1: 2018 and EN 54 -17: 2005

Point Heat Detectors

Product Name	Description	LPCB Ref. No
A3500	Addressable Category P heat detector with short-circuit isolator (LAB100 base)	928a/02
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	

Bases

VB100 Vega adaptor mounting base (with link resistor)

UB100 Universal adaptor mounting base

VB100S Vega adaptor base with shorting clip

UB100S Universal adaptor base with shorting clip

VDBS100 Vega deep adaptor base

DBS100 Deep adaptor base

VDBS100S Vega deep adaptor base with shorting clip

DBS100S Deep adaptor base with shorting clip

UBR100 Universal adaptor base with resistor

DBSR100 Deep adaptor base with resistor

UBDR100 Universal adaptor base with resistor and Schottky diode

DBSRD100 Deep adaptor base with resistor and Schottky diode

LAB100 Standard mounting base

LAB1000 Low profile adaptor base

Certificate No: 928aj to EN 54-5: 2017 + A1: 2018, EN 54-7:2018, EN 54-25: 2008 , EN 54-31:2014 + A1: 2016

Product Name	Description	LPCB Ref. No
LW-DMCO-01	Libra Wireless Addressable Multi Criteria Smoke, Heat and CO Detector.	928aj/01
	Notes:	
	1. Meets the requirements of EN 54-31 and EN 54- 5 depending on the specific classification setting at classes A1R and BS.	
	2. Meets the requirements of EN 54-31 and EN 54-7 at all classification settings.	
	Classification Settings:	
	L0 Harsh smoke profile; smoke profile number 0; heat classification BS.	
	L1 Harsh smoke profile; smoke profile number 1; heat classification A1R.	
	L2 Harsh smoke profile; smoke profile number 2; heat classification A1R.	
	L3 Harsh smoke profile; smoke profile number 3; heat classification A1R.	
	N0 Normal smoke profile; smoke profile number 0; heat classification A1R.	
	N1 Normal smoke profile; smoke profile number 1; heat classification A1R.	
	N2 Normal smoke profile; smoke profile number 2; heat classification A1R.	
	N3 Normal smoke profile; smoke profile number 3; heat classification A1R.	

H0 Clean smoke profile; smoke profile number 0; heat classification A1R.

H1 Clean smoke profile; smoke profile number 1; heat classification A1R.

H2 Clean smoke profile; smoke profile number 2; heat classification A1R.

H3 Clean smoke profile; smoke profile number 3; heat classification A1R.

Base

WAB100

Certificate No: 928b to EN 54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
A1000	Addressable photoelectric smoke detector with short-circuit isolator (LAB100 base)	928b/02
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Bases

VB100 Vega adaptor mounting base (with link resistor)

UB100 Universal adaptor mounting base

VB100S Vega adaptor base with shorting clip

UB100S Universal adaptor base with shorting clip

VDBS100 Vega deep adaptor base

DBS100 Deep adaptor base

VDBS100S Vega deep adaptor base with shorting clip

DBS100S Deep adaptor base with shorting clip

UBR100 Universal adaptor base with resistor

DBSR100 Deep adaptor base with resistor

UBDR100 Universal adaptor base with resistor and Schottky diode

DBSRD100 Deep adaptor base with resistor and Schottky diode

LAB100 Standard mounting base

LAB1000 Low profile adaptor base

WAB100 Wireless adaptor base

Certificate No: 928c to EN 54-5: 2017+ A1: 2018, EN 54-7: 2018, EN 54 -17: 2005 & CEA 4021: 2003

Multisensor Detectors

Product Name	Description	LPCB Ref. No
A2000	Addressable multi-criteria detector with short-circuit isolator (LAB100 base)	928c/02
	Notes:	
	1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings:	
	Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response	

Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response

Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response

Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response

2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:

Category A1R heat only response

3. Meets the requirements of EN 54-7 at the following sensitivity settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Bases

VB100 Vega adaptor mounting base (with link resistor)

UB100 Vega universal mounting base

VB100S Vega adaptor base with shorting clip

UB100S Universal adaptor base with shorting clip

VDBS100 Vega deep adaptor base

DBS100 Deep adaptor base

VDBS100S Vega deep adaptor base with shorting clip

DBS100S Deep adaptor base with shorting clip

LAB100 Standard mounting base

LAB1000 Low profile adaptor base

WAB100 Wireless adaptor base

Certificate No: 928d to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
S3500	Conventional Category P Heat Detector (UB100, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases) Note: 1. Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02
A3500L	Altair Lite Addressable Category P Heat Detector (LAB1000 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

UB100 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

LAB1000 Low Profile Adaptor Base

Certificate No: 928e to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
S1000	Conventional Photoelectric Smoke Detector (UB100, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases)	928e/02
A1000L	Altair Lite Addressable Photoelectric Smoke Detector (LAB1000 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 Low	928e/03

Bases

UB100 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky Diode

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

LAB1000 Low Profile Adaptor Base

Certificate No: 928f to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
A2000L	Altair Lite Addressable Photoelectric Smoke Detector & Category A1R Heat Detector (LAB1000 Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heatresponse Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 High sensitivity	928f/02

Optical only level 2

Optical only level 3

Optical only level 4 Low sensitivity

Bases

LAB1000 Low Profile Adaptor Base

Certificate No: 928j to EN 54-5: 2017 + A1: 2018 and EN 54-25: 2008

Heat Detectors

Product Name	Description	LPCB Ref. No
L-HT-SG	Wireless Libra Addressable Category P Heat Detector (WAB100 Base)	928j/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R and BS	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Bases

WAB100 Wireless Adaptor Base

Certificate No: 928k to EN 54-7:2018, EN 54-25:2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
L-OP-SG	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)	928k/02
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Base

WAB100-Wireless Adaptor Base

Certificate No: 928m to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
L-MC-SG	Wireless Libra Addressable Multicriteria Detector (WAB100 Base)	928m/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R	
	2. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	3. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Base

WAB100 - Wireless Adaptor Base

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Certificate No: 928ab-(cl-2) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
ARM-OPX	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (ARM-MB base) Notes: 1.Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ab/01

Base

ARM-MB Mounting Base

Certificate No: 928ac-(cl-2) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
ARM-OHX	Addressable Multi-Criteria Detector with Short Circuit Isolator (ARM-MB base) Notes: 1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ac/01

Bases

ARM-MB Mounting Base

Certificate No: 928ad-(cl-2) to EN 54-5:2017+A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
ARM-HTX	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (ARM-MB base)	928ad/01
	Note:	
	1. Meets the requirements of EN 54-5 at Category A1R and Category BS	

Bases

ARM-MB Mounting Base

Certificate No: 928ae-(cl-2) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
ARM-OP	Addressable Photoelectric Smoke Detector (ARM-MB base)	928ae/01
	Note:	
	1.Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Bases

ARM-MB Mounting Base

Certificate No: 928af-(cl-2) to EN54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
ARM-OH	Addressable Photoelectric Smoke Detector & Heat Detector (ARM-MB Base)	928af/01
	Notes:	
	1. Meets the requirements of EN 54-5 & EN 54-7 at the following	
	settings:	
	Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection	
	with Category A1 heat response	
	Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat	
	response	
	Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat	
	response	
	Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection	
	with Category A1 heat response	
	2. Meets the requirements of EN 54-5 at the following settings:	
	Category A1R heat only response	
	3. Meets the requirements of EN 54-7 at the following settings:	
	Optical only level 1 - High sensitivity	

Optical only level 2

Optical only level 3

Optical only level 4 - Low sensitivity

Bases

ARM-MB Mounting Base

Certificate No: 928ag-(cl-2) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
ARM-HT	Addressable Category P Heat Detector (ARM-MB base)	928ag/01
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R and Category BS	

Bases

ARM-MB Mounting Base

ASENWARE LTD

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Certificate No: 1426b-(cl-3) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
AW-D302	Addressable Heat Detector	1426b/01
	Notes:	
	Meets the requirements of EN 54-5 for Category A2	

Base

DZ-912

Certificate No: 1426c-(cl-3) to EN 54-7:2018

Commercial detectors

Product Name	Description	LPCB Ref. No
AW-D301	Addressable Smoke Detector	1426c/01
	Notes:	
	Meets the requirements of EN 54-7 for 1 sensitivity setting	

Base

DZ-912

Certificate No: 1426k-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018

Product Name	Description	LPCB Ref. No
AW-D303	Analogue Addressable Optical/Heat Multi-sensor Detector (Base DZ-912)	1426k/01

Notes

1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2

2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S

3. Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1

Base

DZ-912

ASI Oy Ltd

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Certificate No: 1571a to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-25:2008 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ARF-WL8-OH	Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571a/01
EK-WL8-OH	(EKHO Brand) Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571a/01
KM-WL8-OH	(K-Mesh Brand) Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High	1571a/01

- Normal
- Low

3. The device must be used with the following batteries only:
   - Primary CR123A (3V)
   - Secondary CR2032 (3V)

Certificate No: 1571b to EN 54-7:2018 & EN 54-25:2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
ARF-WL8-O	Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571b/01
EK-WL8-O	(EKHO Brand) Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571b/01
KM-WL8-O	(K-Mesh Brand) Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571b/01

Certificate No: 1571c to EN 54-5:2017 + A1:2018 & EN 54-25:2008

Heat Detectors

Product Name	Description	LPCB Ref. No
ARF-WL8-H	Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R	1571c/01

	2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	
EK-WL8-H	(EKHO Brand) Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01
KM-WL8-H	(K-Mesh Brand) Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01

Certificate No: 1571e to EN 54-3:2014 + A1:2019, EN 54-7:2018, EN 54-23:2010 & EN 54-25:2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
ARF-WL8-OV	Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3 for the following tones: Default messages loaded by manufacturer are the following: a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01) b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing: Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s) c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing: Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s) Additional approved tones for WL8-OV device are the following: d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45) e) Continuous (3500 Hz, s52) f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence) g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit) h) Voice message 5 (Fire! Fire! Please leave the building by the central exit) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low	1571e/01

3. The device must be used with the following batteries only:

- Primary – CR123A (3V)

- Secondary – CR123A (3V)

4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:

- Category rating C-3-7.5, O-4.4-7.5

- Synchronization

- Flash rate 0.5Hz

- White LED

EK-WL8-OV	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD	1571e/01

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Default messages loaded by manufacturer are the following:

a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01)

b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing: Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s)

c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing: Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s)

Additional approved tones for WL8-OV device are the following:

d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45)

e) Continuous (3500 Hz, s52)

f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence)

g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit)

h) Voice message 5 (Fire! Fire! Please leave the building by the central exit)

2. Approved to EN54-7 at the following sensitivity settings:

- High

- Normal

- Low

3. The device must be used with the following batteries only:

- Primary – CR123A (3V)

- Secondary – CR123A (3V)

4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:

- Category rating C-3-7.5, O-4.4-7.5

- Synchronization

- Flash rate 0.5Hz

- White LED

KM-WL8-OV	(K-Mesh Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and	1571e/01

VAD

Notes:

1. Meets the requirements of EN 54-3 for the following tones:

Default messages loaded by manufacturer are the following:

a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01)

b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing: Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s)

c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing: Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s)

Additional approved tones for WL8-OV device are the following:

d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45)

e) Continuous (3500 Hz, s52)

f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence)

g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit)

h) Voice message 5 (Fire! Fire! Please leave the building by the central exit)

2. Approved to EN54-7 at the following sensitivity settings:

- High

- Normal

- Low

3. The device must be used with the following batteries only:

- Primary – CR123A (3V)

- Secondary – CR123A (3V)

4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:

- Category rating C-3-7.5, O-4.4-7.5

- Synchronization

- Flash rate 0.5Hz

- White LED

Certificate No: 1825b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-25:2008, EN 54-29: 2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ARC-WL8-OH	Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825b/01
EK-WL8-OH	(EKHO Brand) Wireless Multi-Sensor Detector	1825b/01

	Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	
KM-WL8-OH	(K-Mesh Brand) Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825b/01

Certificate No: 1825d-(cl-1) to EN 54-7:2018, EN 54-25:2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
ARC-WL8-O	Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825d/01
EK-WL8-O	(EKHO Brand) Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825d/01
KM-WL8-O	(K-Mesh Brand) Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825d/01

Certificate No: 1825e-(cl-1) to EN 54-7:2018, EN 54-25:2008, EN 54-3: 2014 + A1: 2019

Smoke Detectors

Product Name	Description	LPCB Ref. No
ARC-WL8-OS	Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone)	1825e/01

	- One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	
EK-WL8-OS	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825e/01
KM-WL8-OS	(K-Mesh Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825e/01

Certificate No: 1825j-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-25:2008

Heat Detectors

Product Name	Description	LPCB Ref. No
ARC-WL8-H	Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825j/01
EK-WL8-H	(EKHO Brand) Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825j/01
KM-WL8-H	(K-Mesh Brand) Wireless Heat Detector Notes:	1825j/01

1. Meets the requirements of EN 54-5 for the following settings:
- Category A1R
2. The device must be used with the following batteries only:
- Primary – CR123A (3V)
- Secondary – CR2032 (3V)

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Certificate No: 1154k to EN 54-5: 2017+ A1: 2018 , EN 54-25: 2008

Heat Detectors

Product Name	Description	LPCB Ref. No
WL350X	Velox Bi-directional Wireless Addressable Category P Heat Detector	1154k/01
	Notes:	
	1. Meets the requirements of EN 54-5 for Categorys A1R and BS	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Base

WAB100 - Wireless Adaptor Base

Certificate No: 1154m to EN 54-7: 2018 , EN 54-25: 2008

Product Name	Description	LPCB Ref. No
WL100X	Velox Bi-directional Wireless Addressable Dual Path Optical Smoke Detector with Variable Sensitivity	1154m/01
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Base

WAB100 - Wireless Adaptor Base

Certificate No: 1154n to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 , EN 54-25: 2008, CEA 4021: 2003

Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
WL200X	Velox Bi-directional Wireless Addressable Multi-criteria Smoke Detector with Variable sensitivity	1154n/01
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R	
	2. Meets the requirements of EN 54-7 at the following sensitivity settings:	

Level 1 - High

Level 2 - Normal

Level 3 - Low

3. The device must be used with the following battery type only:

CR123A (3 Vdc) - Primary and Secondary Battery

Bases

VELOX VB100 Velox adaptor base

UB100 Universal adaptor base

VELOX VB100S Velox adaptor base with shorting clip

UB100S Universal adaptor base with shorting clip

VELOX VDBS100 Velox deep adaptor base

DBS100 Deep adaptor base

VELOX VDBS100S Velox deep adaptor base with shorting clip

DBS100S Deep adaptor base with shorting clip

WAB100 Wireless Adaptor Base

40900 Velox adaptor base

40900-S Velox adaptor base with short clip

40900-DP Velox deep adaptor base

40900-DPS Velox deep adaptor base with short clip

Bharat Fire Fighting PVT Ltd

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Certificate No: 1450c-(cl-3) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
BKG300	Addressable Photoelectric Smoke Detector (BKFB2 base)	1450c/01

Base

BKFB2

Certificate No: 1450d-(cl-3) to EN 54-5: 2017 + A1: 2018

Product Name	Description	LPCB Ref. No
BKG310	Addressable Category A2R Rate of Rise and Fixed Temperature Heat Detector (BKFB2 Base)	1450d/01

Base

BKFB2

Certificate No: 1450j-(cl-1) to EN 54-29:2015

Product Name	Description	LPCB Ref. No
BKG330	Addressable Smoke and Heat Multi Detector (BKFB2 Base)	1450j/01
	Notes:	
	1. Meets the requirements of EN 54-29 for Heat Category A2R	

Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low

Bases

BKFB2 Standard Base

Bristol Fire Engineering LLC

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Certificate No: 1174a-(cl-3) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
B61-1001	Conventional Optical Smoke Detector (B61-4001 base)	1174a/01
	Note:	
	1. Meets the requirements of EN 54-7 at default sensitivity setting only	

Bases

B61-4001 Base

IGN-7200 Base

Certificate No: 1174b-(cl-3) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
B61-2001	Conventional Heat Detector (B61-4001 base)	1174b/01
	Note:	
	1. Meets the requirements of EN 54-5 at Category A2R	

Bases

B61-4001 Base

IGN-7200 Base

Certificate No: 1330a-(cl-5) to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
IGN-C7404	Conventional Reflective Beam Detector	1330a/01
	Notes:	
	1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:	
	- Level 1: 2.6 dB High sensitivity	
	- Level 2: 3.8 dB Medium sensitivity	
	- Level 3: 5.8 dB Low sensitivity	
	2. Suitable for use at the following separation ranges:	
	- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)	
	- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)	
	- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)	
	- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	

Accessories:

Mounting Bracket

IGN-C7404-R 1 x Mirror Reflector

IGN-C7404-R 4 x Mirror Reflector

Certificate No: 1330b-(cl-2) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
IGN-7401	Intelligent Smoke Detector (IGN-7200 base)	1330b/01

Base

IGN-7200 Detector Base

Certificate No: 1330c-(cl-2) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
IGN-7402	Intelligent Heat Detector (IGN-7200 base) Note: 1. Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base

IGN-7200 Detector Base

Certificate No: 1330j-(cl-2) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
IGN-7403	Intelligent Multi-sensor Fire Detector (IGN-7200 Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

Bases

IGN-7200

Carrier Fire & Security BV

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E-mail: heni.karaa@carrier.com • Website: www uk.firesecurityproducts.com/en

Certificate No: 010p to

Heat Detectors

Product Name	Description	LPCB Ref. No
DT654L	Series 65 Conventional Category A1R Heat Detector with Flashing LED (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category A1R Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/05

DT654	Series 65 Conventional Category A1R Heat Detector (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category A1R Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/06
23900-K035-065	Series 65 Conventional Category A1R Heat Detector (branded as Kidde Products Ltd) (23902-H08 base) Notes: Meets the requirements of EN54: Part 5 at Category A1R Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/06
DT655L	Series 65 Conventional Category BR Heat Detector with Flashing LED (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category BR Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/08
DT655	Series 65 Conventional Category BR Heat Detector (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category BR Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/09

Bases

23902-H08 Series 60/65 mounting base

DB860 Series 60/65 mounting base

DB650 Series 65 relay mounting base

DB650R Series 65 auxiliary relay mounting base

Certificate No: 010q to

Smoke Detectors

Product Name	Description	LPCB Ref. No
DP652L	Series 65 Conventional Optical Detector - Flashing LED (branded as Aritech Ltd) (DB860 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/11
DP652	Series 65 Conventional Optical Smoke Detector (branded as Aritech Ltd) (DB860 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
23900-K034-065	Series 65 Conventional Optical Smoke Detector (branded as Kidde Products Ltd) (23902-H08 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
23900-K041	XP95 Analogue Addressable Optical Smoke Detector (branded as Kidde Products Ltd) (45681-209 and 45681-210 mounting bases) Note:	010q/18

Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.

Bases

DB860 Series 60/65 mounting base

23902-H08 Series 60/65 mounting base

45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base

Certificate No: 1199d-(cl-1) to EN 54-20:2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
Stratos Micra 25	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.31%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/01
Senator 25	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.31%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/01
Stratos Micra 100	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/02
Senator 100	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following	1199d/02

	requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	
Stratos HSSD 2	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/03
Senator 200	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/03
Stratos HSSD 2 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/04
Senator 200 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/04
Stratos HSSD 2 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4.	1199d/05

	2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	
Senator 200 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/05
9-30783	Detector Module for Stratos ModuLaser (Branded AirSense) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes: 1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783) must be used in conjunction with at least one of the following ancillary equipment: - Command Display Module, (Part No: 9-30782) - Standard Display Module, (Part No: 9-30781) - Minimum Display Module, (Part No: 9-30780) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 4-4001-501-1003.	1199d/07
FHSD8330	LaserSense ModuLaser, Detector Module (Branded Edwards) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes: 1. For compliance with EN 54-20:2006, the Detector Module (FHSD8330) must be used in conjunction with at least one of the following ancillary equipment: - LaserSense Modulaser, Command Display Module, (Part No: FHSD8320) (Branded Edwards) - LaserSense Modulaser, Standard Display Module, (Part No: FHSD8310) (Branded Edwards) - LaserSense Modulaser, Minimum Display Module, (Part No: FHSD8300) (Branded Edwards) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-2003-08.	1199d/07
9-30783-KID	Senator ModuLaser, Detector Module (Branded Kidde) Incorporating the following ancillary equipment:	1199d/07

	-Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes: 1. For compliance with EN 54-20:2006, the Detector Module (9-30783-KID) must be used in conjunction with at least one of the following ancillary equipment: - Senator ModuLaser, Command Display Module, (Part No: 9-30782-KID) (Branded Kidde) - Senator ModuLaser, Standard Display Module, (Part No: 9-30781-KID) (Branded Kidde) - Senator ModuLaser, Minimum Display Module, (Part No: 9-30780-KID) (Branded Kidde) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-0003-08.	
9-30783-CHI	Detector Module for Stratos ModuLaser (Branded AirSense, Chinese Variant) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes: 1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783-CHI) must be used in conjunction with at least one of the following ancillary equipment: - Command Display Module, (Part No: 9-30782-CHI) - Standard Display Module, (Part No: 9-30781-CHI) - Minimum Display Module, (Part No: 9-30780-CHI) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-1003-11.	1199d/07

Ancillaries: Stratos HSSD 2 Stand Alone Command

Module (Branded as Kidde Airsense) Senator Command Module (Branded as Kidde) FHSD8320 Command Display Module (Branded as Edwards) FSHD8310 Standard Display Module (Branded as Edwards) FSHD8300 Minimum Display Module (Branded as Edwards) 9-30782-KID Command Display Module (Branded as Kidde) 9-30781-KID Standard Display Module (Branded as Kidde) 9-30780-KID Minimum Display Module (Branded as Kidde)

9-30782-CHI Command Display Module (Chinese Variant)

9-30781-CHI Standard Display Module (Chinese Variant)

9-30780-CHI Minimum Display Module (Chinese Variant)

Certificate No: 1320b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ZX832-3P	Analogue Addressable Combined Photoelectric Smoke and Heat Detector - Polar White (ZP7-SB1 base) Notes: 1. Meets the requirements of EN 54-7:2018 at sensitivity level 1, Profile 4 (default) setting only. 2. Meets the requirements of EN 54-5:2017 + A1:2018 for Class A1	1320b/01

Base:

ZP7-SB1 Standard Base

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Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928a-(cl-10) to EN 54-5:2017+A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
TI-002215	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (TI-002231 base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928a/02

Base

TI-002231 Low Profile Adaptor Base

Certificate No: 928b-(cl-10) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
TI-002211	Addressable Photoelectric Smoke Detector with Short Circuit Isolator (TI-002231 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928b/02

Bases:

TI-002231 Low Profile Adaptor Base

Certificate No: 928c-(cl-10) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
TI-002213	Addressable Multi-Criteria Detector with Short Circuit Isolator (TI-002231 Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings:	928c/02

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Bases:

TI-002231 Low Profile Adaptor Base

Certificate No: 928d-(cl-14) to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
TI-002267	Conventional Category B Heat Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases) Note: 1. Meets the requirements of EN 54-5 for Category B	928d/02
TI-002268	Conventional Category A1R Heat Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases) Note: 1. Meets the requirements of EN 54-5 for Category A1R	928d/02
TI-002216	Addressable Category P Heat Detector (TI-002231 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

TI-002270 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

TI-002231 Low Profile Adaptor Base

Certificate No: 928e-(cl-14) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
TI-002265	Conventional Photoelectric Smoke Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases)	928e/02
TI-002212	Addressable Photoelectric Smoke Detector (TI-002231 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 Low	928e/03

Bases

TI-00270 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky Diode

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

TI-002231 Low Profile Adaptor Base

Certificate No: 928f-(cl-10) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
TI-002214	Addressable Photoelectric Smoke Detector & Category A1R Heat Detector (TI-002231 Base)	928f/02
	Notes:	
	1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following	
	settings:	
	Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection	
	with Category A1 heat response	
	Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection	
	with Category A1 heat response	
	2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:	
	Category A1R heat only response	
	3. Meets the requirements of EN 54-7 at the following settings:	
	Optical only level 1 High sensitivity	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 Low sensitivity	

Bases

TI-002231 Low Profile Adaptor Base

Certificate No: 928j-(cl-11) to EN54-5: 2017 + A1: 2018 & EN 54-25: 2008

Product Name	Description	LPCB Ref. No
TI-002279A	Wireless Addressable Category P Heat Detector (WAB100 Base)	928j/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R and BS	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Bases

TI-002270 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

TI-002231 Low Profile Adaptor Base

Certificate No: 928k-(cl-11) to EN 54-7: 2018, EN 54-25: 2008

Product Name	Description	LPCB Ref. No
TI-002277A	Wireless Addressable Optical Smoke Detector (WAB100 Base)	928k/02
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Base

WAB100- wireless Adaptor Base

TI-002270 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky Diode

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

TI-002231 Low Profile Adaptor Base

Certificate No: 928m-(cl-11) to EN 54-5: 2017+ A1: 2018, EN 54-7:2018 EN 54-25: 2008 CEA 4021:2003

Product Name	Description	LPCB Ref. No
TI-002278A	Wireless Addressable Multicriteria Detector (WAB100 Base)	928m/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R	
	2. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	3. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Base

WAB100 Base

TI-002231 Low Profile Adaptor Base

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Certificate No: 010h to

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
F850511N	Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

46581-209 XP95/Discovery standard deep mounting base

45681-210 XP95 Mounting base

Certificate No: 010p to

Heat Detectors

Product Name	Description	LPCB Ref. No
F850675N	Series 65 Conventional Category A1R Heat Detector (45681-200 base Notes: 1. Meets the requirements of EN54: Part 5 at C ategory A1R 2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/06
F850677N	Series 65 Conventional Category BR Heat Detector (45681-200 base) Notes: 1. Meets the requirements of EN54: Part 5 at C ategory BR 2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/09

Bases

45681-200 Series 60/65 mounting base

45681-201 Series 60/65 diode mounting base

45681-245 Series 65 relay mounting base

45681-246 Series 65 auxiliary relay mounting base

45681-247 Series 65 EOL 12 Volt mounting base

45681-248 Series 65 EOL 24 Volt mounting base

Certificate No: 010q to

Smoke Detectors

Product Name	Description	LPCB Ref. No
F850673N	Series 65 Conventional Optical Smoke Detector (45681-200 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
F850251N	XP95 Analogue Addressable Optical Smoke Detector (45681-209 and 45681-210 mounting bases) Note: Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/18
F850508N	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 mounting bases) Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03

45681-200 Series 60/65 mounting base

45681-201 Series 60/65 diode mounting base

45681-245 Series 65 relay mounting base

45681-246 Series 65 auxiliary mounting base

45681-247 Series 65 EOL 12 Volt mounting base

45681-248 Series 65 EOL 24 Volt mounting base

45681-210 XP95 mounting base

45681-209 XP95/Discovery standard deep mounting base

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Certificate No: 176k to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
CA416	CAST Optical Smoke Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01
HP416	HP Optical Smoke Detector with Short Circuit Isolator (HP408) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01

Bases:

CA408 CAST Detector Standard Base

CA431A/W CAST Base Sounder with Short Circuit Isolator

CA456A/W CAST Base Sounder VAD with Short Circuit Isolator

CA460A/W CAST Base VAD with Short Circuit Isolator

HP408 HP Standard Base

Certificate No: 176m to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
CA414	CAST Multisensor Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Notes: 1. Meets the requirements of EN 54-5 for Class A2 2. Meets the requirements of EN 54-7 for low, medium and high sensitivity settings	176m/01

Bases:

CA408 CAST Detector Standard Base

CA431A/W CAST Base Sounder with Short Circuit Isolator

CA456A/W CAST Base Sounder VAD with Short Circuit Isolator

CA460A/W CAST Base VAD with Short Circuit Isolator

HP408 HP Standard Base

Certificate No: 176n to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
CA402	CAST Class P Heat Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Notes: 1. Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B.	176n/01
HP402	HP Class P Heat Detector with Short Circuit Isolator (HP408) Notes: 1) Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B.	176n/01

Bases:

CA408 CAST Detector Standard Base

CA431A/W CAST Base Sounder with Short Circuit Isolator

CA456A/W CAST Base Sounder VAD with Short Circuit Isolator

CA460A/W CAST Base VAD with Short Circuit Isolator

HP408 HP Standard Base

Consilium Marine and Safety AB

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Certificate No: 1461d-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018, CEA 4021:2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
EV-PP	Analogue Addressable Combined Photoelectric Smoke and Category A1 Heat Sensor	1461d/01

Bases:

UB-2 Universal Base

UB-6 Universal Base

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport, SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010m-(cl-3) to EN 54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
55000-885IMC	XP95 Multisensor Smoke Detector (45681-210 Mounting Base)Certified with Apollo XP95 and S90 digital communication protocols that have been configured for the XP95 multisensor detector in accordance with manufacturers instructions.	010m/01

45681-210 XP95 Mounting base

CA408/CON CAST Detector Standard Base

Certificate No: 010p-(cl-4) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
55000-400IMC	XP95 Analogue addressable Category A2S heat detector (45681-210IMC mounting base) Certifiied with XP95 digital communications protocol.	010p/20

Bases

45681-210IMC XP95 Mounting base

Certificate No: 010q-(cl-4) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
55000-600IMC	XP95 Analogue Addressable Optical Smoke Detector (45681-210IMC Mounting base) Certificated with XP95 digital communication protocol.	010q/18

Bases

45681-210IMC XP95 Mounting base

Certificate No: 176k-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
CA416/CON	CAST Optical Smoke Detector with Short Circuit Isolator (CA408/CON) Note:	176k/01

1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.

Base

CA408/CON CAST Detector Standard Base

Certificate No: 176m-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
CA414/CON	CAST Multisensor Detector with Short Circuit Isolator (CA408/CON)	176m/01
	Notes:	
	1) Meets the requirements of EN 54-5 for Class A2	
	2) Meets the requirements of EN 54-7 for low, medium and high sensitivity settings	

Base

CA408/CON CAST Detector Standard Base

Certificate No: 176n-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
CA402/CON	CAST Class P Heat Detector with Short Circuit Isolator (CA408/CON)	176n/01
	Notes:	
	1) Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B	

Base

CA408/CON CAST Detector Standard Base

Cooper Sécurité SAS

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E-mail: phillipwilliams@eaton.com

Certificate No: 1260a-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
DOFA3000	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (NUG30256 and NUG30258 bases)	1260a/01

Bases

NUG30256 Single contact standard analogue addressable mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 1260b-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
DMCFA3000	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit isolator (NUG30256 and NUG30258 bases)	1260b/01
	Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes:	

Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S)

Mode 3 Heat detector alone (Category A2S)

Bases

NUG30256 Single contact standard analogue addressable mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 1260c-(cl-1) to EN 54-5:2017+A1:2018, EN 54-17:2005

Product Name	Description	LPCB Ref. No
DTVA3000	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (NUG30256 and NUG30258 bases) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	1260c/01

Bases

NUG30256 Single contact standard analogue addressable mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 685a-(cl-3) to EN 54-5: 2017+ A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
DTVS3000	Conventional Category A2R heat detector (NUG30255 and NUG30257 bases)	685a/01
DTS77°S3000	Conventional Category BS heat detector (NUG30255 and NUG30257 bases)	685a/02
DTS90°S3000	Conventional Category CS heat detector (NUG30255 and NUG30257 bases)	685a/03

Bases

NUG30255 Standard conventional mounting base

NUG30257 Double contact standard conventional mounting base

Certificate No: 685g-(cl-3) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
DMCFS3000	Conventional photo/thermal multisensor and Category A2S heat detector (NUG30255 and NUG30257 bases)	685g/01

Bases:

NUG30255 Single contact standard conventional mounting base

NUG30257 Double contact standard conventional mounting base

Certificate No: 685h-(cl-3) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
DOFS3000	Conventional photoelectric smoke detector (NUG30255 and NUG30257 bases)	685h/01

Bases:

NUG30255 Single contact standard conventional mounting base

NUG30257 Double contact standard conventional mounting base

Certificate No: 685j-(cl-3) to EN 54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
DOFA3000	Intelligent analogue addressable photoelectric smoke detector (NUG30256 and NUG30258 bases)	685j/01

Bases

NUG30256 Standard analogue addressable mounting base

NUG30255 Standard conventional mounting base

NUG30257 Double contact standard conventional mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 685k-(cl-3) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 , EN 54-17: 2005 and CEA4021: July 2003(en)

Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
DMCFA3000	Intelligent analogue addressable Category A2S multisensor opto/heat detector (NUG30256 and NUG30258 bases) **Notes:** 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 1 - Photoelectric/heat combined only Mode 2 - Photoelectric/heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 - Heat detector alone (Category A2S)	685k/01

Bases

NUG30256 Standard analogue addressable mounting base

NUG30255 Standard conventional mounting base

NUG30257 Double contact standard conventional mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 685m-(cl-3) to EN 54-5: 2017 + A1: 2018 and EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
DTVA3000	Intelligent analogue addressable Category P heat detector (NUG30256 and NUG30258 bases) **Notes:** 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	685m/01

Bases

NUG30256 Single contact standard analogue addressable mounting base

NUG30258 Double contact standard analogue addressable mounting base

DEF..

9, rue du Saule Trapu, MASSY, 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1324e-(cl-1) to EN 54-12:2015

Linear Heat Detection System

Product Name	Description	LPCB Ref. No
E-BEAM (R)	Linear Smoke Detector, Relay Version Note: 1. Meets the requirements of EN 54-12:2015 at the following sensitivity settings: a. Setting No. 4 (default) - 1.33 dB attenuation (3 to 100 m) b. Setting No. 5 - 1.60 dB attenuation (8 to 100 m) c. Setting No. 6 - 2.00 dB attenuation (8 to 100 m)	1324e/01

Certificate No: 1549d-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-18:2005 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
LOTA	Multi-Sensor Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Notes: 1. Certified at the following settings for EN 54-29: - Behaviour 1: Medium sensitivity & normal heat combination - Behaviour 2: Medium sensitivity & high heat combination - Behaviour 3: Standard sensitivity & normal heat combination - Behaviour 4: Standard sensitivity & high heat combination - Behaviour 5: Low sensitivity & normal heat combination - Behaviour 6: Low sensitivity & high heat combination 2. Meets the requirements of EN 54-5 for the following settings: - Behaviour 7: A1S - Behaviour 8: A2S - Behaviour 9: BS - Behaviour 10: A1R - Behaviour 11: A2R - Behaviour 12: BR 3. Certified at the following EN 54-7 sensitivity settings: - Behaviour 13: High sensitivity - Behaviour 14: Medium sensitivity - Behaviour 15: Standard sensitivity - Behaviour 16: Low sensitivity 4. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549d/01
LOTAI	Multi-Sensor Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Notes: 1. Certified at the following settings for EN 54-29:	1549d/02

- Behaviour 1: Medium sensitivity & normal heat combination
- Behaviour 2: Medium sensitivity & high heat combination
- Behaviour 3: Standard sensitivity & normal heat combination
- Behaviour 4: Standard sensitivity & high heat combination
- Behaviour 5: Low sensitivity & normal heat combination
- Behaviour 6: Low sensitivity & high heat combination

2. Meets the requirements of EN 54-5 for the following settings:

- Behaviour 7: A1S
- Behaviour 8: A2S
- Behaviour 9: BS
- Behaviour 10: CS
- Behaviour 11: A1R
- Behaviour 12: A2R
- Behaviour 13: BR
- Behaviour 14: CR

3. Certified at the following EN 54-7 sensitivity settings:

- Behaviour 15: High sensitivity
- Behaviour 16: Medium sensitivity
- Behaviour 17: Standard sensitivity
- Behaviour 18: Low sensitivity

4. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used

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FC012M Base with screw terminal

FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

Certificate No: 1549g-(cl-1) to EN 54-7:2018, EN 54-17:2005 & EN 54-18:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
LOA	Smoke Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Certified at the following EN 54-7 sensitivity settings: - Behaviour 1: High sensitivity - Behaviour 2: Medium sensitivity - Behaviour 3: Standard sensitivity - Behaviour 4: Low sensitivity 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549g/01

FC012M Base with screw terminal

FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

Certificate No: 1549h-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-18:2005 & EN 54-31:2014 + A1:2016

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
LOTCA	Addressable Multi-sensor Point Detector with Short Circuit Isolator and Input/Output Device	1549h/01

(FC012M and FC039M bases)

Note:

1. Certified at the following settings for EN 54-31:

- Behaviour 1: High sensitivity & CO combination & normal heat combination
- Behaviour 2: Medium sensitivity & CO combination & high heat combination
- Behaviour 3: Standard sensitivity & CO combination & normal heat combination
- Behaviour 4: Dur & CO combination & high heat combination

2. Meets the requirements of EN 54-5 for the following settings:

- Behaviour 5: A1S
- Behaviour 6: A2S
- Behaviour 7: A1R
- Behaviour 8: A2R

3. Certified at the following EN 54-7 sensitivity settings:

- Behaviour 9: Very sensitive - Lowest response values
- Behaviour 10: Sensitive - Intermediate response values
- Behaviour 11: Standard - Intermediate response values
- Behaviour 12: Hard - Highest response values

4. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used

FC012M Base with screw terminal

FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia, 23834, USA
Tel: 804-417-2244
E-mail: marketing@detectfire.info • Website: http://detectfire.info/

Certificate No: 1283a(cl-4) to EN 54-12: 2002

Beam Detectors

Product Name	Description	LPCB Ref. No
DF 800	Conventional Optical Beam Smoke Detector (Double Pass)	1283a/01

Notes:

1. Meets the requirements of EN 54-12 at the following sensitivity settings only:

- 18% obscuration high sensitivity at between 5-20m
- 30% obscuration medium sensitivity at between 20-100m

2. Suitable for use with E39-R8 prismatic reflector over distances from 5 to 50m

3. Suitable for use with 4 x E39-R8 set of reflectors over distances from 50 to 100m

Detectomat Systems GmbH..

An der Strusbek 3, Ahrensburg, Hamburg, 22926, Germany
Tel: +49 41 02 21 14 60
E-mail: zulassung@detectomat.com

Certificate No: 1549e-(cl-1) to EN 54-17:2005, EN 54-18:2005 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
MA15	Multi-Sensor Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Certified at the following settings for EN 54-29: - Behaviour 1: Medium sensitivity & normal heat combination - Behaviour 2: Medium sensitivity & high heat combination - Behaviour 3: Standard sensitivity & normal heat combination - Behaviour 4: Standard sensitivity & high heat combination - Behaviour 5: Low sensitivity & normal heat combination - Behaviour 6: Low sensitivity & high heat combination 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549e/01

FC012M Base with screw terminal

FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

Certificate No: 1549f-(cl-1) to EN 54-5:2017 + A2:2018, EN 54-17:2005 & EN 54-18:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
TA15	Heat Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Behaviour 1: A1S - Behaviour 2: A2S - Behaviour 3: BS - Behaviour 4: A1R - Behaviour 5: A2R - Behaviour 6: BR 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549f/01

FC012M Base with screw terminal

FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

Certificate No: 1549g-(cl-2) to EN 54-7:2018, EN 54-17:2005 & EN 54-18:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
OA15	Smoke Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Certified at the following EN 54-7 sensitivity settings: - Behaviour 1: High sensitivity - Behaviour 2: Medium sensitivity - Behaviour 3: Standard sensitivity - Behaviour 4: Low sensitivity 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay	1549g/02

NO or SHUNT & output relay NC) is used

FC012M Base with screw terminal

FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay

Detector Electronics Corporation

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Certificate No: 973a to EN 54-10: 2002 + A1: 2005 and EN 54-17: 2005

Flame Detectors

Product Name	Description	LPCB Ref. No
X9800	Analogue Addressable IR Flame Detector with Short Circuit Isolator Notes: 1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturer s installation document 95-8642 with respect to the number of devices to be connected in a group or zone. 2. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only. 3. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only. 4. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.	973a/01
X5200	Analogue Addressable UV/IR Flame Detector with Short Circuit Isolator Notes: 1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturer s installation document 95-8642 with respect to the number of devices to be connected in a group or zone. 2. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 3. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. 4. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973a/02
X3301	Analogue Addressable Multispectrum IR Flame Detector with Short Circuit Isolator Notes: 1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturer s installation document 95-8642 with respect to the number of devices to be connected in a group or zone. Meets the requirements of EN 54-10:2002 Class 1, Class 2 and Class 3: Medium, High, Very High, Hangar Mode Medium, Hangar Mode High, Hangar mode Very High sensitivity levels.	973a/03
X2200	Analogue Addressable UV Flame Detector with Short Circuit Isolator Notes: 1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturer s installation document 95-8642 with respect to the number of devices to be connected in a group or zone. 2. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.	973a/04

	3. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. 4. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	
X9800	Conventional IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only. 3. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.	973e/01
X5200	Conventional UV / IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. 3. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973e/02
X3301	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 1, Class 2 and Class 3: Medium, High, Very High, Hangar Mode Medium, Hangar Mode High, Hangar mode Very High sensitivity levels.	973e/03
X2200	Conventional UV Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. 3. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973e/04
X5200G	Conventional UV/IR Flame Detector Notes: 1. Meets the requirements of EN54-10: 2002 Class 1, 2 and 3 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. 3. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973e/05
X5200G	Analogue Addressable UV/IR Flame Detector with Short Circuit Isolator Notes: 1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturer s installation document 95-8642 with respect to the number of devices to be connected in a group or zone. 2. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 3. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. 4. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low,	973a/05

	Medium, High and Very High sensitivity settings for UV and IR sensors only.	
X2200G	Analogue Addressable UV Flame Detector with Short Circuit Isolator Notes: 1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturer s installation document 95-8642 with respect to the number of devices to be connected in a group or zone. 2. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 3. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. 4. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973a/06
X2200G	Conventional UV Flame Detector Note: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. 3. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973e/06
X3302	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 3 at Very high sensitivity setting in Regular and Sustained mode only.	973e/07

Bases:

Q9033 Mounting Arm

Certificate No: 973e to EN 54-10:2002 + A1:2005

Flame Detectors

Product Name	Description	LPCB Ref. No
X9800	Conventional IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.	973e/01
X5200	Conventional UV/IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973e/02
X3301	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 1, Class 2 and Class 3: Medium, High, Very High, Hangar Mode Medium, Hangar Mode High, Hangar mode Very High sensitivity levels.	973e/03

X2200	Conventional UV Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973e/04
X5200G	Conventional UV/IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973e/05
X2200G	Conventional UV Flame Detector Note: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973e/06
X3302	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 3 at Very high sensitivity setting in Regular and Sustained mode only	973e/07

Ancillary

Q9033 Mounting Arm

Dorman Smith Technologies Limited

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Tel: +44 (0) 844 225 1063
E-mail: jagdish@dormansmith-tech.com

Certificate No: 928ab-(cl-3) to EN 54-7:2018, EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
DFI7/O	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (DFI7/B Base) 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ab/02

Bases

v profile adaptor base

Certificate No: 928ac-(cl-3) to EN 54-5:2017 + A1:2018, EN 54-17: 2005, EN 54-7:2018, CEA 4021

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
DFI7/OT	Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (DFI7/B Base) 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ac/02

Low profile adaptor base

Certificate No: 928ad-(cl-3) to EN 54-5:2017 + A1:2018, EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
DFI7/T	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (DFI7/B base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928ad/02

Low profile adaptor base

Certificate No: 928ae-(cl-3) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
DFI7/O/L	Addressable Optical Smoke Detector (DFI7/B Base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 – Low	928ae/02

Bases
Low Profile Adaptor Base

Certificate No: 928af-(cl-3) to EN 54-5:2017 + A1:2018, CEA 4021, EN 54-7:2018

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
DFI7/OT/L	Addressable Multi-Criteria Detector (DFI7/B Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 – High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 – Low sensitivity	928af/02

Low Profile Adaptor Base

Certificate No: 928ag-(cl-3) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
DFI7/T/L	Analogue Addressable Heat Detector Category P (DFI7/B Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928ag/02

Low Profile Adaptor Base

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, Gwent, NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 378aa to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
EF-CBD130	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity	378aa/01

- Level 2: 3.8 dB Medium sensitivity

- Level 3: 5.8 dB Low sensitivity

2. Suitable for use at the following separation ranges:

- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)

- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)

- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)

- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

Accessories

EF-CBD-M - Mounting Bracket

EF-CBM-R1- 1x Mirror Reflector

EF-CBM-R4- 4x Mirror Reflector

Certificate No: 378m to EN 54-5: 2017+ A1: 2018, EN 54-7: 2018, CEA 4021: 2003

Product Name	Description	LPCB Ref. No
FIRECAT	Conventional Multi-Sensor Smoke / Heat Detector (FIRECAT Base) Notes: 1. Meets the requirements of EN 54-7 at the following settings: S1 - High sensitivity (optical smoke only) 0.10dB/m S2 - Low sensitivity dual multi-sensor (smoke enhanced by heat and class A2S heat detector) 0.15dB/m 2. Meets the requirements of EN 54-5 at the following settings: M1 - Heat detector Category A1R M2 - Heat detector Category BS	378m/01
EFXN632	Conventional Photo/Thermal Multisensor and Category A2S Heat Detector (EFDB800 and EFXN520 Bases)	378m/02
FXN922	Conventional Photo/Thermal Multisensor and Category P Heat Detector (EFDB800 and EFXN520 Bases) Notes: 1. Meets the requirements of EN 54-7 in the following modes: Mode 1 Thermally enhanced optical smoke detector Smoke sensitivity 0.15dB/m Mode 2 Optical smoke detector Smoke sensitivity 0.1 dB/m 2. Meets the requirements of EN 54-5 in the following modes: Mode 3 Heat detector Category A1R Mode 4 Heat detector Category BS Mode 5 Heat detector Category CS	378m/03
EFBW5IN1DET	Conventional Photo/Thermal Multisensor and Category P Heat Detector (EFDB800 and EXFN520 Bases) Notes: 1. Meets the requirements of EN 54-7 in the following modes: Mode 1 Thermally enhanced optical smoke detector Smoke sensitivity 0.15dB/m	378m/04

	Mode 2 Optical smoke detector Smoke sensitivity 0.1 dB/m 2. Meets the requirements of EN 54-5 in the following modes: Mode 3 Heat detector Category A1R Mode 4 Heat detector Category BS Mode 5 Heat detector Category CS

Bases

EFDB800 Single Contact Standard Conventional Mounting Base (Zener Diode)

EFXN520 Single Contact Conventional Mounting Base (Schottky Diode)

Certificate No: 378v to 54-7:2018, EN 54-17:2005

Product Name	Description	LPCB Ref. No
MAP820	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier)	378v/01
FXN723	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FXN720 Bases) - (JSB)	378v/01
CAP320	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (CAB300 Base) - (Cooper)	378v/01
MAP820	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier)	378v/02
COPP420	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (COPA800 Base)	378v/01
FXN723	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FXN720 Bases) - (JSB)	378v/02
CAP320	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (CAB300 Base) - (Cooper)	378v/02
COPP420	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (COPA800 Base)	378v/02

Bases

MAB800 (Menvier) -Single contact standard analogue addressable mounting base

FXN720 (JSB) -Single contact standard analogue addressable mounting base

CAB300 (Cooper)-Single contact standard analogue addressable mounting base

COPA800 -Single contact standard analogue addressable mounting base

Certificate No: 378w to EN 54-5:2017 + A1:2018, EN 54-7:2018 EN 54-17:2005 CEA 4021:2003

Product Name	Description	LPCB Ref. No
MAOH850	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (MAB800 bases) - (Menvier) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	378w/01
FXN722	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (FXN720 bases) - (JSB) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone	378w/01

	(Category A2S) Mode 3 Heat Detector alone (Category A2S)	
CAPT340	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (CAB300 base) (Cooper) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone Category A2S)	378w/01
COPOH450	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (COPA800 base) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	378w/01
MAOH850	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (MAB800 bases) - (Menvier) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	378w/02
FXN722	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (FXN720 bases) - (JSB) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	378w/02
CAPT340	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (CAB300 base) (Cooper) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	378w/02
COPOH450	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (COPA800 base) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	378w/02

Bases

MAB800 (Menvier) Single contact standard analogue addressable mounting base

FXN720 (JSB) Single contact standard analogue addressable mounting base

CAB300 (Cooper) Single contact standard analogue addressable mounting base

COPA800 Single contact standard analogue addressable mounting base

Certificate No: 378x to EN 54-5:2017 + A1:2018, EN 54-17:2005

Product Name	Description	LPCB Ref. No
MAH830	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier)	378x/01

	Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	
FXN725	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (FXN720 Bases) - (JSB) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/01
CAH330	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (CAB300 Base) (Cooper) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/01
COPH430	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (COPA800 Base) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/01
MAH830	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/02
FXN725	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (FXN720 Bases) - (JSB) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/02
CAH330	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (CAB300 Base) (Cooper) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/02
COPH430	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (COPA800 Base) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	378x/02

Bases

MAB800 (Menvier) Single contact standard analogue addressable mounting base

FXN720 (JSB) Single contact standard analogue addressable mounting base

CAB300 (Cooper) Single contact standard analogue addressable mounting base

COPA800 Single contact standard analogue addressable mounting base

Certificate No: 378y to EN 54-5:2017 + A1: 2018

Product Name	Description	LPCB Ref. No
EFXN525	Conventional Category A2R Heat Detector (EFDB800 and EFXN520 Bases)	378y/01
EFXN524	Conventional Category BS Heat Detector (EFDB800 and EFXN520 Bases)	378y/02
EFXN526	Conventional Category CS Heat Detector (EFDB800 and EFXN520 Bases)	378y/03

Bases

EFXN520 - Single contact conventional mounting base (Schottky Diode)

EFDB800 -Single contact standard conventional mounting base (Zener Diode)

Certificate No: 378z to EN 54-7:2018

Product Name	Description	LPCB Ref. No
EFXN533	Conventional Photoelectric Smoke Detector (EFDB800 and EFXN520 Bases)	378z/01

Bases

EFDB800 -Single contact standard conventional mounting base (Zener diode)

EFXN520 -Single contact conventional mounting base (Schottky diode)

Eaton Electrical Products Ltd

Security House, Vantage Point Business Village, Mitcheldean, Gloucestershire, GL17 0SX, United Kingdom
Tel: +441594545543

Certificate No: 685g-(cl-4) to EN 54-5:2017 + A1: 2018 EN 54-7:2018, CEA 4021: 2003

Product Name	Description	LPCB Ref. No
M12	Conventional Multi-Sensor Smoke / Heat Detector (M12 Base) Notes: 1. Meets the requirements of EN 54-7 at the following settings: S1 - High sensitivity (optical smoke only) 0.10dB/m S2 - Low sensitivity dual multi-sensor (smoke enhanced by heat and Category A2S heat detector) 0.15dB/m 2. Meets the requirements of EN 54-5 at the following settings: M1 - Heat detector Category A1R M2 - Heat detector Category BS	685g/03

Bases

M12

EDS Elektronik Destek San. Ve Tic. Ltd. Sti.

Meclis Mah. Teraziler Cad., Hayran Sok. No 4, Istanbul, 34785 Sancaktepe, Turkey
Tel: +44 (216) 5284500

Certificate No: 1086a to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
EC-P2L	Conventional optical smoke detector 5 pin (EC-DB base)	1086a/01
EC-P2L-3	Conventional optical smoke detector 3 pin (EC-DB3 base)	1086a/02

Base:

EC-DB 5 pin base

EC-DB3 3 pin base

EL.MO. Spa

Via Pontarola 70, Campodarsego (PD), 35011, Italy
Tel: +390499203333
E-mail: international@elmospa.com • Website: www.elmospa.com

Certificate No: 1163a-(cl-2) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SNI01C	2-Wire Conventional Optical Smoke Detector with Remote LED Output (BSC Base) Note: 1. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163a/03

Bases

BSC 2-Wire with Remote LED Base

Certificate No: 1163c-(cl-2) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SNI02C	2-Wire Conventional Heat Detector with Remote LED Output (BSC Base) Note: 1. Meets the requirements of EN 54-5 for the following setting: - Class A1R	1163c/07

Bases

BSC 2-Wire with Remote LED Base

Certificate No: 1163p-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SNI03C	2-Wire Conventional Heat and Optical Smoke Detector with Remote LED Output (BSC Base) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Class A2 2. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163p/01

Base

BSC 2-Wire with Remote LED Base

Certificate No: 1163q-(cl-1) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
SNI01A	Analogue Addressable Optical Smoke Detector (BSA Base) Notes: 1. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163q/01

Base

BSA 4-Term Low profile 100mm diameter base with SCI

Certificate No: 1163r-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
SNI02A	Analogue Addressable Heat Detector (BSA Base)	1163r/01
	Notes:	
	1. Meets the requirements of EN 54-5 for the following setting:	
	- Category A2R and A2S	

Base

BSA 4-Term Low profile 100mm diameter base with SCI

Certificate No: 1163s-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SNI03A	Analogue Addressable Heat and Optical Smoke Detector (BSA Base)	1163s/01
	Notes:	
	1. Meets the requirements of EN 54-5 for the following setting:	
	- Category A2R and A2S	
	2. Meets the requirements of EN 54-7 at the default smoke sensitivity	

Base

BSA 4-Term Low profile 100mm diameter base with SCI

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham, B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331g-(cl-1) to EN 54-3:2001+ A1: 2002 + A2: 2006 EN 54-5:2000+ A1: 2002 EN 54-7: 2000 + A1: 2002 + A2: 2006 CEA 4021: 2003, EN 54-3: 2014 + A1: 2019, EN 54-5: 2017 + A1:2018, EN 54-7: 2018

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
MAGDUOSHDSS	MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder & Strobe (45-0048-202-01 Base)	331g/03
	Notes:	
	1. Meets the requirements of EN 54-5 at the following settings:	
	HM1 Category A1 standard temperature rate of rise enhanced	
	HM2 Category A1 standard temperature, fixed temperature	
	HM3 Category C standard temperature, fixed temperature	
	2. Meets the requirements of EN 54-7 at the following settings:	
	SM1 Standard optical sensitivity with high thermal enhancement	
	SM2 Standard optical sensitivity with normal thermal enhancement	
	3. Meets the requirements of EN 54-3 at the following tones –	
	SP1 Continuous 970Hz	
	SP2 Alternating tone at 800/970Hz	
	SP3 Sweep Up 800-970Hz	
	4. The strobe function is not approved to EN 54-23	

Bases:

45-0048-202-01 Standard Base

Certificate No: 331y-(cl-1) to EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002 + A2:2006 CEA 4021: 2003, EN 54-5:2017 + A1: 2018, EN 54-7: 2018

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
MAGDUOSHD	MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5 at the following settings: HM1 CategoryA1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature HM3 Category C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement	331y/01

Bases:

45-0048-202-01 Standard Base

Certificate No: 331z-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002 + A2:2006 CEA 4021: 2003, EN 54-3: 2014 + A1: 2019, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
MAGDUOSHDS	MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5 at the following settings: HM1 Category A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature HM3 Category C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement 3. Meets the requirements of EN 54-3 at the following tones - SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970Hz	331z/01

Bases:

45-0048-202-01 Standard Base

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates
Tel: +971 6 5340300
E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506a to

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
FX-0311-2	(2-Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/02
FX-0311-3	(3-Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/03
FX-0311-4	(4-Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/04

Bases:

AHMB-031 Mounting Base

EPITOME TRADING AND CONTRACTING

C-Ring Road, Cinema Signal, Ali Bin Jabor Complex, Doha, 203197, Qatar
Tel: +97430300467
E-mail: amr@epitometc.com

Certificate No: 1174a-(cl-8) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FS-C331	Conventional Optical Smoke Detector (FS-B33 base) Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only.	1174a/01

Bases
Base

Certificate No: 1174b-(cl-8) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FS-C332	Conventional Heat Detector (FS-B33 base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01

Bases
Base

Eurotech Fire Protection Ltd, in collaboration with Firetec Systems Ltd

Unit 6, The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2QZ, United Kingdom
Tel: +44 118 989 7910
E-mail: jamie.morris@firetec-systems.com • Website: www.firetec-systems.com

Certificate No: 1283a-(cl-2) to EN 54-12:2002

Product Name	Description	LPCB Ref. No
EFPB01	Conventional Optical Beam Smoke Detector (Double Pass) Notes:	1283a/01

1. Meets the requirements of EN 54-12 at the following sensitivity settings only:

· 18% obscuration high sensitivity at between 5-20m

· 30% obscuration medium sensitivity at between 20-100m

2. Suitable for use with Ref-50 prismatic reflector over distances from 5 to 50m

3. Suitable for use with Ref-100 set of reflectors over distances from

50 to 100m

Ancillaries

Ref-50 Single prism reflector

Ref-100 Set of 4 x prism reflectors

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire, PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213ae to EN 54-7:2018

Product Name	Description	LPCB Ref. No
200-404	Odyssey Conventional Optical Smoke Detector (200-300 and 200-301 Base)	1213ae/01
200-503	Odyssey Analogue Addressable Optical Smoke Detector (200-111 Base)	1213ae/02

Bases

200-300 Odyssey Mounting Base

200-301 Odyssey Diode Mounting Base

200-111 Odyssey Mounting Base

Certificate No: 1213af to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Product Name	Description	LPCB Ref. No
200-507	Odyssey Plus Intelligent Multi-Sensor Detector (200-111 base) Notes: 1. Certified at the following settings: Mode 1 High sensitivity smoke detector with standard heat enhancement Mode 2 Smoke detection only Mode 3 Medium sensitivity smoke detector with standard heat enhancement Mode 4 Low sensitivity smoke detector with high heat enhancement Mode 5 Category A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	1213af/01

Bases

200-111 Odyssey Mounting Base

Certificate No: 1213c to EN 54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
200-505	Odyssey Analogue Addressable Multisensor Detector (200-111 mounting base)	1213c/01

Bases:

200-111 Odyssey mounting base

100-3000V Low profile adaptor base

EUW-WAB Wireless Adaptor Base

Certificate No: 1213d to EN 54-5:2017+A1:2018

Product Name	Description	LPCB Ref. No
200-400	Odyssey Conventional Category A1R Heat Detector (200-300 Base) Note: Meets the requirements of EN 54: Part 5 - Category A1R	1213d/01
200-401	Odyssey Conventional Category BR Heat Detector (200-300 Base) Note: Meets the requirements of EN 54: Part 5 - Category BR	1213d/02
200-402	Odyssey Conventional Category CR Heat Detector (200-300 Base) Note: 1. Meets the requirements of EN 54: Part 5 - Category CR	1213d/03
200-403	Odyssey Conventional Category CR Heat Detector (200-300 Base) Note: 1. Meets the requirements of EN 54: Part 5 - Category CR	1213d/04
200-501	Odyssey Analogue Addressable Category A2S Heat Detector (200-111 Base)	1213d/05
200-502	Odyssey Analogue Addressable Category CS Heat Detector (200-111 Base)	1213d/06
100-2200V	EURV-H-A1R Intelligent Rate of Rise Heat Detector (100-3000V Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	1213d/07
100-2505V	EURV-H Conventional Category P Heat Detector (100-3500V, 100-3511V and 100-3510V Bases) Note: 1. Meets the requirements of EN 54-5 for Category A1R and Category B	1213d/08

Bases

200-300 Odyssey Mounting Base

200-111 Odyssey Mounting Base

100-3500V Conventional Standard Base

100-3511V Conventional Resistor Base

100-3510V Conventional Diode Base

100-3000V Standard Mounting Base

Certificate No: 1213e to EN 54-7:2018

Product Name	Description	LPCB Ref. No
100-2100V	EURV-P Intelligent Optical Smoke Detector (100-3000V Base) Note:	1213e/03

	1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	
100-2210V	EURVC-P Conventional Optical Smoke Detector (100-3500V, 100-3511V and 100-3510V Bases)	1213e/04

Bases

100-3500V Conventional Standard Base

100-3511V Conventional Resistor Base

100-3510V Conventional Diode base

100-3000V Standard Mounting Base

Certificate No: 1213n to EN 54-7:2018, EN 54-17:2005

Product Name	Description	LPCB Ref. No
100-2101V	EURV-PI Intelligent Optical Smoke Detector with Short Circuit Isolator (100-3000V Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	1213n/01

Bases:

100-3000V Low Profile Adaptor Base

Certificate No: 1213p to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Product Name	Description	LPCB Ref. No
100-2401V	EURV-PHI Intelligent Multi-Criteria Detector with Short Circuit Isolator (100-3000V Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	1213p/01

Bases:

100-3000V Low Profile Adaptor Base

Certificate No: 1213r to EN 54-5:2017+A1:2018, EN 54-17:2005

Product Name	Description	LPCB Ref. No
100-2201V	EURV-H-A1RI Intelligent Category P Heat Detector with Short Circuit Isolator (100-3000V Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	1213r/01

Bases:

100-3000V Low Profile Adaptor Base

Certificate No: 1213s to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Product Name	Description	LPCB Ref. No
100-2400V	EURV-PH Intelligent Multi-Criteria Detector (100-3000V Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 Low sensitivity	1213s/01

Bases:

100-3000V Standard Mounting Base

Everday Technology Co. Limited

No, .95., Sec. 2., Ligong 1 St. Road., Letzer Industrial Park, Yilan County 26841, Taiwan ROC
Tel: +886 3 990 6099
E-mail: alex.hsieh@everday.com • Website: www.everday.com

Certificate No: 512d to EN 54-5: 2000 + A1: 2002

Point Heat Detectors

Product Name	Description	LPCB Ref. No
EA323-2	Conventional 2 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector	512d/01

	(P/N852001 base)	
EA323-2	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/02
EA323-2L	Conventional 2 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector with LED output (P/N854001 base)	512d/03
EA323-2L	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (P/N854001 base)	512d/04
EA323-4	Conventional 4 wire 12VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/05
EA323-4	Conventional 4 wire 12VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/06
EA323-4	Conventional 4 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/07
EA323-4	Conventional 4 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/08

Bases:

P/N852001 2-Wire detector base

P/N854001 4-Wire detector base

EB7501 base

Certificate No: 512k to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
TR6100	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	512k/01

Accessories

Mounting Bracket

BT7130-R 1 x Mirror Reflector

BT7130-R 4 x Mirror Reflector

FARE

ZA de la Guinette, 782 rue Duhamel du Monceau, Dadonville BP 10809, Pithiviers, 45308, France
Tel: 02.38.34.54.95
E-mail: p.lecompagnon@fare-sa.com

Certificate No: 1549b to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
OC-OIEx	Conventional ATEx Optical Smoke Detector	1549b/01

Base:

S05Ex Base

FFE Ltd

9 Hunting Gate, Wilbury Way, Hitchin, Hertfordshire, SG4 0TJ, United Kingdom
Tel: +44 (0) 1462 444740
E-mail: sales@ffeuk.com • Website: www.ffeuk.com

Certificate No: 1204a to EN 54-10: 2002 + A1: 2005

Commercial detectors -1 - 1 - 4

Product Name	Description	LPCB Ref. No
16511	Talentum Conventional IR2 (Exd) Flameproof Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/05
16519	Talentum Conventional IR3 (Exd) Flameproof Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/06
16521	Talentum Conventional UV/IR2 (Exd) Flameproof Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/07
16571	Talentum Conventional IR2 (IS) Intrinsically Safe Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/08
16579	Talentum Conventional IR3 (IS) Intrinsically Safe Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/09
16581	Talentum Conventional IR2 Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/10
16589	Talentum Conventional IR3 Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/11
16591	Talentum Conventional UV/IR2 Flame Detector (07127 Bracket) Note: 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/12

07127 Adjustable Mounting Bracket

45681-200 Mounting base - Produced by Apollo Fire Detectors

45681-201 Mounting base with diode - Produced by Apollo Fire Detectors

45681-209 Deep base - Produced by Apollo Fire Detectors

45681-210 Mounting base - Produced by Apollo Fire Detectors

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Torfaen, NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331f to EN 54-3: 2014 + A1: 2019, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 EN 54-17: 2005, EN 54-18: 2005 and CEA 4021:July 2003 (en)

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
205-0001	Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator and sounder. **Notes:** 1. Meets the requirements of EN 54-5 at the following settings: HM1 Category A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature. 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement. 3. Approved at the following tones - SP1 Continuous 970Hz SP2 Pulsed 970Hz 1s on 1s off SP3 Dual Tone 970Hz 0.25s , 800Hz 0.25s SP4* Sweep Up 800-970Hz over 1s SP5 Slow Whoop 500-1200Hz over 3s, 0.5s off SP6* Sweep Down 1200-500Hz over 1s SP7 Dual French 550Hz 0.1s, 440Hz 400ms * Not available if the I/O facility is used.	331f/01
205-0012	Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator and sounder/strobe. **Notes:** 1. Meets the requirements of EN 54-5 at the following settings: HM1 Cateory A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature. 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement. 3. Approved at the following tones - SP1 Continuous 970Hz	331f/02

SP2 Pulsed 970Hz 1s on 1s off

SP3 Dual Tone 970Hz 0.25s , 800Hz 0.25s

SP4* Sweep Up 800-970Hz over 1s

SP5 Slow Whoop 500-1200Hz over 3s, 0.5s off

SP6* Sweep Down 1200-500Hz over 1s

SP7 Dual French 550Hz 0.1s, 440Hz 400ms

* Not available if the I/O facility is used.

4. The strobe function is not approved.

Bases

45-0048-202 ASD Base

45-0048-202-01 Standard Base

25-0065-202 Base extension

45-0306-202 Twinflex Multipoint Base

200-0014 Shallow Base

Certificate No: 331g to EN 54-3:2001 + A1:2002 + A2:2006 EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002 + A2:2006 CEA 4021: 2003, EN 54-3: 2014 + A1: 2019, EN 54-5: 2017 + A1:2018, EN 54-7: 2018

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
204-0001	Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder (45-0306-202 & 45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5 at the following settings: HM1 Category A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature HM3 Category C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement 3. Meets the requirements of EN 54-3 at the following tones - SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970Hz	331g/02
204-0012	Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder & Strobe (45-0306-202 & 45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5 at the following settings: HM1 Category A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature HM3 Category C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement 3. Meets the requirements of EN 54-3 at the following tones	331g/03

SP1 Continuous 970Hz

SP2 Alternating tone at 800/970Hz

SP3 Sweep Up 800-970Hz

4. The strobe function is not approved to EN 54-23:2010

Bases

45-0306-202 Twinflex Multipoint Base

45-0048-202-01 Standard Base

Certificate No: 331n to EN 54-5:2017 + A1:2018 EN 54-7:2018 EN 54-17:2005 EN 54-18:2005 CEA 4021: 2003

Product Name	Description	LPCB Ref. No
205-0003	Sita Analogue Addressable Optical Smoke and Heat Multisensor Detector with Short Circuit Isolator. Notes 1. Meets the requirements of EN 54-5 at the following settings: HM1 Category A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature. 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement	331n/01

Accessories

45-0048-202 ASD Base

25-0065-202 Base extension

Certificate No: 331p to EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002 + A2:2006 CEA4021: 2003, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
204-0003	Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5 at the following settings: HM1 Category A1 standard temperature rate of rise enhanced HM2 Category A1 standard temperature, fixed temperature HM3 Category C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement	331p/02

Bases:

45-0048-202-01 Standard Base

Finder Yangin Güvenlik Elektronik Sistemler A.S

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 221 40 07
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450c-(cl-1) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FF O500	Intelligent Addressable Photo Smoke Detector (Base FF BS500)	1450c/01

FF BS500 Standard Base

Certificate No: 1450d-(cl-1) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FF T500	Intelligent Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector (Base FF BS500) FF BS500 Standard Base	1450d/01

Certificate No: 1450j-(cl-4) to EN 54-29: 2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FF OT500	Addressable Smoke and Heat Multi Detector (FF BS500) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R 2. Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Base:
FF BS500 Standard Base

Certificate No: 928a-(cl-1) to EN 54-5: 2017 + A1: 2018 and EN 54 -17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
FFT200A	Analogue Addressable Category P Heat Detector with Short-Circuit Isolator (FF BS200A Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928a/02

Bases

FF BS200 Mounting base (with link resistor)

FF UBR200 Universal adaptor base with resistor

FF BRD200 Universal adaptor base with resistor and Schottky diode

FF BS200A Low Profile Adaptor Base

Ancillaries

FF BDP Single prism reflector

FF BDX Set of 4 x prism reflectors

Certificate No: 928b-(cl-1) to EN 54-7: 2018 and EN 54 -17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
FF O200A	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (FF BS200A Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928b/02

Bases

FF BS200 Mounting base (with link resistor)

FF UBR200 Universal adaptor base with resistor

FF BRD200 Universal adaptor base with resistor and Schottky diode

WAB100 Wireless Adaptor Base

FF BS200A Low Profile Adaptor Base

Certificate No: 928c-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54 -17: 2005 & CEA 4021: 2003

Multi-sensor Detectors

Product Name	Description	LPCB Ref. No
FF OT200A	Addressable Multi-Criteria Detector with Short-Circuit Isolator (FF BS200A Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928c/02

Bases

FF BS200 Mounting base (with link resistor)

FF BS200A Low Profile Adaptor Base

Certificate No: 928d-(cl-1) to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FF T1000	Conventional Category P Heat Detector (FF UBR200 and FF BRD200 Bases) Note: Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02
FFT200AL	Addressable Category P Heat Detector (FF BS200A Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

FF UBR200 Universal Adaptor Base with Resistor

FF BRD200 Universal Adaptor Base with Resistor and Schottky Diode

FF BS200A Low Profile Adaptor Base

Certificate No: 928e-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FF O1000	Conventional Photo Smoke Detector (FF UBR200 and FF BRD200 Bases)	928e/02
FF O200AL	Addressable Photoelectric Smoke Detector (FF BS200A Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03

Bases

FF UBR200 Universal Adaptor Base with Resistor

FF BRD200 Universal Adaptor Base with Resistor and Schottky Diode

FF BS200A Low Profile Adaptor Base

Certificate No: 928f-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FF OT200AL	Addressable Photo & Category A1R Heat Detector (FF BS200A Base) Notes 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - thermally enhanced smoke detection with Category A1 heat Multi criteria level 2 thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - thermally enhanced smoke detection	928f/02

with Category A1 heat

2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:

Heat detection only Category A1R

3. Meets the requirements of EN 54-7 at the following settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Bases

FF BS200A Low Profile Adaptor Base

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174a-(cl-6) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FST-6627	Addressable Optical Smoke Detector (FST-6617 base) (branded as FST)	1174a/02
	Note:	
	1. Meets the requirements of EN 54-7 at the following sensitivities:	
	- Mode 0 (High)	
	- Mode 1 (Factory Setting)	
	- Mode 2	
	- Mode 3 (Low)	

Bases

FST-6617 Addressable mounting base

Certificate No: 1174b-(cl-6) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FST-6637	Addressable Heat Detector (FST-6617 base) (branded as FST)	1174b/02
	Note:	
	1. Meets the requirements of EN 54-5 at Category A1R and A2	

Bases

FST-6617 Addressable mounting base

Certificate No: 1174f-(cl-6) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FST-6647	Addressable Smoke and Heat Detector (FST-6617 base) (branded as FST)	1174f/01
	Notes:	

1) Meets the requirements of EN 54-5 at Category A1R and A2

2) Meets the requirements of EN 54-7 at the following sensitivity settings

- Smoke Mode 2 and A1R

- Smoke Mode 2 and A2

- Smoke Mode 2 (Smoke only), heat disabled

Bases

FST-6617 Addressable mounting base

Fireguard Safety Equipment Co Ltd

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands, WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 1138a-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Product Name	Description	LPCB Ref. No
FG-413SD-4	Conventional 4-WIRE Photoelectric Smoke Detector with Relay Output (B-01 base)	1138a/03
FG-413SD-2	Conventional 2-WIRE Photoelectric Smoke Detector with Remote LED (B-01 base)	1138a/04

Base:

B-01 Standard Base

Certificate No: 1330a-(cl-3) to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
FG-BD100	Conventional Reflective Beam Detector	1330a/01
	Notes:	
	1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:	
	- Level 1: 2.6 dB High sensitivity	
	- Level 2: 3.8 dB Medium sensitivity	
	- Level 3: 5.8 dB Low sensitivity	
	2. Suitable for use at the following separation ranges:	
	- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)	
	- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)	
	- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)	
	- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	

Accessories:

Mounting Bracket

FG-BD100-R 1 x Mirror Reflector

FG-BD100-R 4 x Mirror Reflector

Certificate No: 512d-(cl-4) to EN54-5: 2000 + A1: 2002

Heat Detectors

Product Name	Description	LPCB Ref. No
Fireguard FG323-2L	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (Fireguard P/N FG854001 base)	512d/04

Bases

Fireguard P/N FG854001 4 wire detector base

Firelite by Honeywell (Pittway Systems Technology Group (Europe) Ltd)

Honeywell Life Safety Systems, Charles Avenue, Burgess Hill, West Sussex, RH15 9UF, United Kingdom
Tel: +44 1444 230 300
E-mail: sales@morleyias.co.uk

Certificate No: 550a to
Certificate No: 550b to
Certificate No: 550c to

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FL/1003	Conventional photoelectric smoke detector (FL/1000B base)	550a/02
FL/1002	Conventional optical/thermal detector (FL/1000B base) **Notes:** 1. Meets the requirements of EN54-5 at category A1R at pre-set sensitivity.	550b/02
FL/1005	Conventional Category A1R rate of rise heat detector (FL/1000B base)	550c/03

Bases

FL/1000B standard base

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, HP11 2NF, United Kingdom
Tel: 00971 653 40300
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548c-(cl-3) to EN 54-5: 2017+ A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FX9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (FX-01 Base) 1. Meets the requirements of EN 54-5:2017 + A1: 2018 for Class A1R, A2S & BS	548c/03
FXI9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (FX-01 Base) Note: 1. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A1R, A2S & BS	548c/04

Bases:

FX-01 Standard Base

Certificate No: 548d-(cl-3) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FX9102E	Conventional Photoelectric Smoke Detector (FX-01 Base) Note: 1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only	548d/03
FXI9102E	Intelligent Photoelectric Smoke Detector (FX-01 Base) Note: 1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only	548d/04

Bases:

FX-01 Standard Base

Certificate No: 548k-(cl-2) to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
FXI9105E	Intelligent Reflective Beam Detector Notes: 1) Meets the requirements of EN 54-12 at the following sensitivity settings: · Level 1 - 1.3 dB · Level 2 - 1.8 dB (factory default) · Level 3 - 2.3 dB · Level 4 - 2.8 dB (not EN 54-12: 2015 approved) 2) Suitable for use at the following separation ranges in each sensitivity level: · Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask) · Span 2: 10 to 20 meters Short Path (1 x mirror reflector required) · Span 3: 20 to 40 meters Short Path (1 x mirror reflector required) · Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required) · Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)	548k/02
FX9105E	Conventional Reflective Beam Detector Notes: 1) Meets the requirements of EN 54-12 at the following sensitivity settings: · Level 1 - 1.3 dB · Level 2 - 1.8 dB (factory default) · Level 3 - 2.3 dB · Level 4 - 2.8 dB (not EN 54-12: 2015 approved) 2) Suitable for use at the following separation ranges in each sensitivity level: · Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask) · Span 2: 10 to 20 meters Short Path (1 x mirror reflector required) · Span 3: 20 to 40 meters Short Path (1 x mirror reflector required) · Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required) · Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector	548k/03

required)

Accessories

BK-9105R Mounting Bracket

FXRF-9105R 1 x Mirror Reflector

FXRF-9105R 4 x Mirror Reflector

NRM-9105 Non-Reflective Mask

Certificate No: 548q-(cl-2) to EN 54:5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FXI9101E	Intelligent Combination Heat / Photoelectric Smoke Detector (FX-01 Base) Notes: 1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A2R	548q/04

Bases:

FX-01 Standard Base

Certificate No: 548q-(cl-2) to CEA 4021, EN 54-5:2017 + A1:2018, EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FX9101E	Conventional Combination Heat / Photoelectric Smoke Detector (FX-01 Base) Notes: 1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2017 +A1 :2018 for Class A2R	548q/03

FX-01 Standard Base

Frontier Safety Ltd UK

85 Great Portland Street, London, England, W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 991b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ED300	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Notes: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets the requirements of EN 54-5 at category A1R and category B.	991b/01

Bases

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991d-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
ED100	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities.	991d/01

Bases

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991f-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
ED200	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets the requirements of EN 54-5 at category A1R & category B	991f/01

Bases

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Gartec Technology Limited

Rm. 16-17, 21/F, Wing Hing Industrial Building, 83-93 Chai Wan Kok St, Hong Kong, Hong Kong
Tel: 15017163290
E-mail: zx.weng@gartecsafety.com • Website: https://gartecst.com/en

Certificate No: 1729b-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
GHD-23	Conventional Category A1R Heat Detector with Base Notes Meets the requirements of EN 54-5 for Category A1R	1729b/01

Certificate No: 1729c-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
GSD-26	Conventional Smoke Detector with Base Notes: Meets the requirements of EN 54-7	1729c/01

General Auto Electric Corporation,

Plot No A/3 & 30 Sector -I,, Vasai Taluka Industrial Estate, Bilalpada, Vasai Road (East), Dist. Palghar, , Maharashtra, Pin Code 401208, India
Tel: +91 9892630893
E-mail: rohan@gaec.in • Website: https://www.gaec.co.in/

Certificate No: 1426k-(cl-7) to EN 54-5:2017 + A1:2018, EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
GAEC9036T	Analogue Addressable Optical/Heat Multi-sensor Detector (Base DZ-912) Notes: 1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2. 2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1	1426k/01

Base

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042ak to EN 54-5: 2017 + A1: 2018, EN 54-3:2014 + A1:2019, EN 54-17: 2005 and EN 54-18: 2005

Point Heat Detectors

Product Name	Description	LPCB Ref. No
S4T-780-S	S4 Heat Sensor Sounder (Self Test Function) (S4-700 Standard Base, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High - Continuous 933 Hz · Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: · State 0 - Category A1 heat · State 5 - Category B heat · State 6 - Category BS heat · State 7 - Category A2S heat · State 13 - Category A2 heat	042ak/06
S4M-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-	042ak/05

	700, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High - Continuous 933 Hz · Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: · State 0 - Category A1 heat · State 5 - Category B heat · State 6 Category BS heat · State 7 Category A2S heat · State 13 Category A2 heat	
S4-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700 Standard Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	042ak/04

Bases:

17800-01 standard base

17801-01 standard base with diode

17800-02 low profile base

17801-02 low profile base with diode

S4-700 standard base

S4-FLUSH semi-flush fixing kit

S4BK-700 standard base (black)

S4-700-34K Fusion Adapter base

Certificate No: 042bd to EN54-7: 2018, EN54-17: 2005, EN54-18: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
S4-715	S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) *Note:* *1) Meets the requirements of EN 54: Part 7 at the following settings:* State 0 - Medium optical State 3 - High sensitivity State 4 - Medium optical (no spike) State 8 - Delayed medium optical	042bd/01

S4-715-NM	S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) Note: 1. Meets the requirements of EN 54-7 at the following settings: - State 0 – Medium optical - State 3 – High sensitivity - State 4 – Medium optical (no spike) - State 8 – Delayed medium optical	042bd/01

Bases:

S4-700 Standard base

S4-FLUSH Semi-flush fixing kit

S4BK-700 Standard base (black)

S4-700-34K Fusion Adaptor base

Certificate No: 042be to EN54-5: 2017+A1: 2018, EN54-17: 2005, EN54-18: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
S4-720	S-Quad Analogue Addressable Category P Heat Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) Note: Meets the requirement of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	042be/01
S4T-720	S4 Heat Sensor (Self Test Function) (S4-700 Standard base with or without S4-FLUSH semi-flush kit and S4-700-34K) Note: 1. Meets the requirement of EN 54-5 at the following settings: · State 0 - Category A1 heat · State 5 - Category B heat · State 6 - Category BS heat · State 7 - Category A2S heat · State 13 - Category A2 heat	042be/02
S4-720-NM	S-Quad Analogue Addressable Category P Heat Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) Note: 1. Meets the requirement of EN 54-5 at the following settings: - State 0 – Category A1 heat - State 5 – Category B heat - State 6 – Category BS heat	042be/01

- State 7 – Category A2S heat
- State 13 – Category A2 heat

Bases

S4-700 standard base

S4-FLUSH semi-flush fixing kit

S4BK-700 standard base (black)

S4-700-34K Fusion Adapter base

Certificate No: 042bf to EN54-5: 2017+A1: 2018, EN54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
S4-710	S-Quad analogue addressable optical smoke and Category A1 heat multisensor detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) *Note:* *1) Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:* *State 0 - Medium optical / Category A1 heat* *State 2 - Low sensitivity / Category A1 heat** *State 3 - High sensitivity / Category A1 heat* *State 4 - Medium optical (no spoke) / Category A1 heat* *State 5 - Medium optical / Category B heat* *State 6 - Low sensitivity / Category BS heat** *State 7 - Medium optical / Category A2S heat* *State 8 - Delayed medium optical / Category A1 heat* *State 11 - Low sensitivity / Category B heat** *State 12 - Off / Category A1 heat** **Does not meet the requirement of EN 54-7*	042bf/01
S4-711	S-Quad analogue addressable dual optical smoke and Cateogry P heat multisensor detector (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) *Notes:* 1) Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Category A1 heat State 2 - Low sensitivity / Category A1 heat* State 3 - High sensitivity / Category A1 heat State 4 - Medium optical (no spoke) / Category A1 heat State 5 - Medium optical / Category B heat State 6 - Low sensitivity / Category BS heat* State 7 - Medium optical / Category A2S heat State 8 - Delayed medium optical / Category A1 heat State 11 - Low sensitivity / Category B heat* State 12 - Off / Category A1 heat* *Does not meet the requirement of EN 54-7	042bf/02
S4BK-711	S-Quad Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor (Black Body Variant) (S4BK-700 base with or without S4-FLUSH semi-flush fixing kit)	042bf/03

Note:

1.Meets the requirement of *EN 54-5 and EN 54-7 at the following settings except where otherwise stated:*

State 0 - Medium optical / Category *A1 heat*

State 2 - Low sensitivity / Category *A1 heat**

State 3 - High sensitivity / Category *A1 heat*

State 4 - Medium optical (no spoke) / Category *A1 heat*

State 5 - Medium optical / Category *B heat*

State 6 - Low sensitivity / Category *BS heat**

State 7 - Medium optical / Category *A2S heat*

State 8 - Delayed medium optical / Category *A1 heat*

State 11 - Low sensitivity / Category *B heat**

*State 12 - Off / Class A1 heat**

**Does not meet the requirement of EN 54-7*

S4T-710

S4 Optical Heat Sensor (Self Test Function) (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) 042bf/04

Note:

1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 Heat
- State 4 - Medium optical (No Spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirement of EN 54-7

S4T-711

S4 Dual Optical Heat Sensor (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) 042bf/05

Notes:

1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4-710-NM	S-Quad Analogue Addressable Optical Smoke and Category A1 Heat Multi-Sensor Detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) Note: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 – Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (No Spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 – Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 – Low sensitivity / Category B heat* - State 12 – Off / Category A1 heat* *Does not meet the requirement of EN 54-7	042bf/01
S4-711-NM	S-Quad Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) Note: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 – Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (No Spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 – Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 – Low sensitivity / Category B heat* - State 12 – Off / Category A1 heat* *Does not meet the requirement of EN 54-7	042bf/02
S4T-711-NM	S4 Dual Optical Heat Sensor (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 – Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 – Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat	042bf/05

- State 11 – Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

Bases:

S4-700 standard base

S4-701 S Quad plate and base

S4-FLUSH semi-flush fixing kit

S4BK-700 standard base (black)

S4BK-705 Black IP21 base covers (pack 5)

S4-700-34K Fusion Adaptor base

Certificate No: 042bh to EN 54-12: 2015 and EN 54-17: 2005

Beam Detectors

Product Name	Description	LPCB Ref. No
S4-34740	Analogue addressable optical beam smoke detector with short circuit isolator (S4-34741-01, S4-34741-03 and S4-700 base) **Notes:** 1. The S4-34740 beam sensor pair comprises of an S4-34741 beam transmitter, plus an S4-34742 beam receiver. 2. Meets the requirements of EN 54-12 at the following sensitivity settings: States 0, 1: 3.01dB States 2, 3: 1.25dB	042bh/01
S4-34740-NM	Analogue addressable optical beam smoke detector with short circuit isolator (S4-34741-01, S4-34741-03 and S4-700 base) Notes: 1. The S4-34740 beam sensor pair comprises of an S4-34741 beam transmitter, plus an S4-34742 beam receiver. 2. Meets the requirements of EN 54-12 at the following sensitivity settings: States 0, 1: 3.01dB States 2, 3: 1.25dB	042bh/01

Ancillaries:

S4-34741-01 beam angle bracket

S4-34741-03 beam parallel bracket

S4-700 Base

Certificate No: 042bu to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
S4-911-V-VAD-HPR	Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High - Continuous 933 Hz	042bu/04

· Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 1 - High sensitivity / Category A1 heat

· State 2 - Low sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 6 - Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 9 - Category A1 heat*

· State 11 - Low sensitivity / Category B heat

· State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

· High power setting - (Category C: C-3-14 and Category O: O-4.5-14)

· Medium power setting - (Category C: C-3-13 and Category O: O-4-13)

· Low power setting - (Category C: C-3-10)

· Synchronization

· Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-911-V-VAD-HPW | Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K) | 042bu/05

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High - Continuous 933 Hz

· Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 1 - High sensitivity / Category A1 heat

· State 2 - Low sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 6 - Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 9 - Category A1 heat*

· State 11 - Low sensitivity / Category B heat

· State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

· High power setting - (Category C: C-6-16)

· Medium power setting - (Category C: C-3-14 and Category O: O-5-14)

· Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8

· Synchronization

· Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-711-V-VAD-HPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High - Continuous 933 Hz · Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: · State 0 - Medium optical / Category A1 heat · State 2 - Low sensitivity / Category A1 heat* · State 3 - High sensitivity / Category A1 heat · State 4 - Medium optical (no spike) / Category A1 heat · State 5 - Medium optical / Category B heat · State 6 - Low sensitivity / Category BS heat* · State 7 - Medium optical / Category A2S heat · State 8 - Delayed medium optical / Category A1 heat · State 11 - Low sensitivity / Category B heat* · State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): · High power setting - (Category C: C-3-14 and Category O: O-4.5-14) · Medium power setting - (Category C: C-3-13 and Category O: O-4-13) · Low power setting - (Category C: C-3-10) · Synchronization · Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/06
S4-711-V-VAD-LPW	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat*	042bu/07

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- Low power setting - (Category C: C-3-10)
- Synchronization
- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-711-V-VAD-HPW — Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K) — 042bu/08

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High- Continuous 933 Hz
- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN

54-23 for the following category (light pattern details):

- High power setting - (Category C: C-6-16)
- Medium power setting - (Category C: C-3-14 and Category O: O-5-14)
- Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8
- Synchronization
- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-711-V-VAD-LPR — Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) — 042bu/09

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High - Continuous 933 Hz
- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):
   - Low power setting - (Category C: C-3-10)
   - Synchronization
   - Flash rate 2 seconds (0.5Hz)
4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4BK-711-V-VAD-HPR — S-Quad Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (Black Body Variant) (S4BK-700 Base and S4BK-705 Base) — 042bu/10

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:
   - High - Continuous 933 Hz
   - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs
2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:
   - State 0 - Medium optical / Category A1 heat
   - State 2 - Low sensitivity / Category A1 heat*
   - State 3 - High sensitivity / Category A1 heat
   - State 4 - Medium optical (no spike) / Category A1 heat
   - State 5 - Medium optical / Category B heat
   - State 6 - Low sensitivity / Category BS heat*
   - State 7 - Medium optical / Category A2S heat
   - State 8 - Delayed medium optical / Category A1 heat
   - State 11 - Low sensitivity / Category B heat*
   - State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):
   - High power setting - (Category C: C-3-14 and Category O: O-4.5-14)
   - Medium power setting - (Category C: C-3-13 and Category O: O-4-13)
   - Low power setting - (Category C: C-3-10)
   - Synchronization
   - Flash rate 2 seconds (0.5Hz)
4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4T-711-V-VAD-HPR	S4 Dual Optical Heat Sensor Voice Sounder High Power RED VAD (Self Test Function) (S4-701 Base, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/12
S4TB-711-V-VAD-HPR	S4 Dual Optical Heat Sensor Voice Sounder High Power RED VAD Black Body (Self Test Function) (S4BK-700 Base and S4BK-705 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat*	042bu/13

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting - (Category C: C-3-14 and Category O: O-4.5-14)

- Medium power setting - (Category C: C-3-13 and Category O: O-4-13)

- Low power setting - (Category C: C-3-10)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4BK-700 base and S4BK-705 IP Plate to achieve IP21C

S4M-711-V-VAD-LPR | S4 Dual Optical Heat Sensor Voice Sounder Standard Power Red VAD (S4-701 Base and S4-700-34K) | 042bu/14

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High - Continuous 933 Hz

- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat

- State 2 - Low sensitivity / Category A1 heat*

- State 3 - High sensitivity / Category A1 heat

- State 4 - Medium optical (no spike) / Category A1 heat

- State 5 - Medium optical / Category B heat

- State 6 - Low sensitivity / Category BS heat*

- State 7 - Medium optical / Category A2S heat

- State 8 - Delayed medium optical / Category A1 heat

- State 11 - Low sensitivity / Category B heat*

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- Low power setting - (Category C: C-3-10)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4M-711-V-VAD-HPR | S4 Dual Optical Heat Sensor Voice Sounder High Power Red VAD (S4-701 Base and S4-700-34K) | 042bu15

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High - Continuous 933 Hz

- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat

- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):
   - Low power setting - (Category C: C-3-10)
   - Synchronization
   - Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4MB-711-V-VAD-HPR

4 Dual Optical Heat Sensor Voice Sounder High Power Red VAD Black Body (S4-701 Base and S4-700-34K) 042bu/16

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:
   - High - Continuous 933 Hz
   - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs
2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:
   - State 0 - Medium optical / Category A1 heat
   - State 2 - Low sensitivity / Category A1 heat*
   - State 3 - High sensitivity / Category A1 heat
   - State 4 - Medium optical (no spike) / Category A1 heat
   - State 5 - Medium optical / Category B heat
   - State 6 - Low sensitivity / Category BS heat*
   - State 7 - Medium optical / Category A2S heat
   - State 8 - Delayed medium optical / Category A1 heat
   - State 11 - Low sensitivity / Category B heat*
   - State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):
   - Low power setting - (Category C: C-3-10)
   - Synchronization
   - Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-911-V-VAD-HPRNM

Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) 042bu/04

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:
   - High – Continuous 933 Hz

- Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

1. State 0 – Medium optical / Category A1 heat

2. State 1 – High sensitivity / Category A1 heat

3. State 2 – Low sensitivity / Category A1 heat

- State 4 – Medium optical (no spike) / Category A1 heat

- State 6 – Low sensitivity / Category BS heat*

- State 7 – Medium optical / Category A2S heat

- State 9 – Category A1 heat*

- State 11 – Low sensitivity / Category B heat

- State 12 – Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting – (Category C: C-3-14 and Category O: O-4.5-14)

- Medium power setting – (Category C: C-3-13 and Category O: O-4-13)

- Low power setting – (Category C: C-3-10)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-711-V-VAD-HPRNM — Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) — 042bu/06

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High – Continuous 933 Hz

- Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

1. State 0 – Medium optical / Category A1 heat

2. State 2 – Low sensitivity / Category A1 heat*

- State 3 – High sensitivity / Category A1 heat

- State 4 – Medium optical (no spike) / Category A1 heat

- State 5 – Medium optical / Category B heat

- State 6 – Low sensitivity / Category BS heat*

- State 7 – Medium optical / Category A2S heat

- State 8 – Delayed medium optical / Category A1 heat

- State 11 – Low sensitivity / Category B heat*

- State 12 – Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting – (Category C: C-3-14 and Category O: O-4.5-14)

- Medium power setting – (Category C: C-3-13 and Category O: O-4-13)

- Low power setting – (Category C: C-3-10)

- Synchronization
- Flash rate 2 seconds (0.5Hz)

Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4T-711-V-VAD-HRNM	S4 Dual Optical Heat Sensor Voice Sounder High Power RED VAD (Self Test Function) (S4-701 Base, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High – Continuous 933 Hz - Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 – Medium optical / Category A1 heat - State 2 – Low sensitivity / Category A1 heat* - State 3 – High sensitivity / Category A1 heat - State 4 – Medium optical (no spike) / Category A1 heat - State 5 – Medium optical / Category B heat - State 6 – Low sensitivity / Category BS heat* - State 7 – Medium optical / Category A2S heat - State 8 – Delayed medium optical / Category A1 heat - State 11 – Low sensitivity / Category B heat* - State 12 – Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting – (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting – (Category C: C-3-13 and Category O: O-4-13) - Low power setting – (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/12

Bases:

S4-700 standard base

S4-701 S Quad plate and base

S4-FLUSH semi-flush fixing kit

S4BK-700 standard base (black)

S4BK-705 Black IP21 base covers (pack 5)

S4-700-34K Fusion Adaptor base

Certificate No: 042bv to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
S4-720-V-VAD-HPR	Analogue Addressable Category P Heat Sensor with Voice, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) Notes:	042bv/01

	1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: State 0 - Category A1 heat State 5 - Category B heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) @ High power setting - (Category C: C-3-14 and Category O: O-4.5-14) @ Medium power setting - (Category C: C-3-13 and Category O: O-4-13) @ Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4-720-V-VAD-HPW	Analogue Addressable Category P Heat Sensor with Voice, Sounder and White Visual Alarm (S4-701 base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: State 0 - Category A1 heat State 5 - Category B heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) @ High power setting - (Category C: C-6-16 and Category O: None) @ Medium power setting - (Category C: C-3-14 and Category O: O-5-14) @ Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21CNotes:	042bv/02
S4T-720-V-VAD-HPR	S4 Heat Sensor Sounder High Powered Red VAD (Self Test Function) (S4-701 Base and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High- Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: · State 0 - Category A1 Heat · State 5 - Category B Heat · State 6 - Category BS Heat · State 7 - Category A2S Heat	042bv/03

· State 13 - Category A2 Heat

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

· High power setting - (Category C: C-3-14 and Category O: O-4.5-14)

· Medium power setting - (Category C: C-3-13 and Category O: O-4-13)

· Low power setting - (Category C: C-3-10 and Category O: None)

· Synchronization

· Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4M-720-V-VAD-HPR — S4 Heat Sensor Voice Sounder High Power Red VAD (S4-701 Base) — 042bv/04

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High - Continuous 933 Hz

- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 at the following settings:

- State 0 - Category A1 heat

- State 5 - Category B heat

- State 6 - Category BS heat

- State 7 - Category A2S heat

- State 13 - Category A2 heat

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- Low power setting - (Category C: C-3-10 and Category O: None)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-720-V-VAD-HPRNM — Analogue Addressable Category P Heat Sensor with Voice, Sounder and Red Visual Alarm with Short Circuit Isolator (S4-701 Base and S4-700-34K) — 042bv/01

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

High- Continuous 933 Hz

Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 at the following settings:

- State 0 – Category A1 Heat
- State 5 – Category B Heat
- State 6 – Category BS Heat
- State 7 – Category A2S Heat
- State 13 – Category A2 Heat

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting – (Category C: C-3-14 and Category O: O-4.5-14)
- Medium power setting – (Category C: C-3-13 and Category O: O-4-13)

- Low power setting – (Category C: C-3-10 and Category O: None)
- Synchronization
- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

Bases:

S4-701 S Quad plate and base

S4-FLUSH semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 042bw to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
S4-711-VAD-HPR	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bw/01
S4-711-VAD-LPW	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with White Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat	042bw/02

- State 5 - Medium optical / Category B heat

- State 6 - Low sensitivity / Category BS heat*

- State 7 - Medium optical / Category A2S heat

- State 8 - Delayed medium optical / Category A1 heat

- State 11 - Low sensitivity / Category B heat*

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- Low power setting - (Category C: C-3-10 and Category O: None)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4-711-VAD-HPW | Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with White Visual Alarm (S4-701 Base and S4-700-34K) | 042bw/03

Notes:

1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 - Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 - Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 - Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting - (Category C: C-6-16 and Category O: None)

- Medium power setting - (Category C: C-3-14 and Category O: O-5-14)

- Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4M-711-VAD-HPR | S4 Dual Optical Heat Sensor High Power Red VAD (S4-701 Base and S4-700-34K) | 042bw/04

Notes:

1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat

- State 2 - Low sensitivity / Category A1 heat*

- State 3 - High sensitivity / Category A1 heat

- State 4 - Medium optical (no spike) / Category A1 heat

- State 5 - Medium optical / Category B heat

- State 6 - Low sensitivity / Category BS heat*

- State 7 - Medium optical / Category A2S heat

- State 8 - Delayed medium optical / Category A1 heat

- State 11 - Low sensitivity / Category B heat*

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting - (Category C: C-3-14 and Category O: O-4.5-14)

- Medium power setting - (Category C: C-3-13 and Category O: O-4-13)

- Low power setting - (Category C: C-3-10 and Category O: None)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

S4T-711-VAD-HPR	S4 Dual Optical Heat Sensor High Power RED VAD (Self Test Function) (S4-701 Base, S4-700-34K and S4 FLUSH)	042bw/05

Notes:

1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat

- State 2 - Low sensitivity / Category A1 heat*

- State 3 - High sensitivity / Category A1 heat

- State 4 - Medium optical (no spike) / Category A1 heat

- State 5 - Medium optical / Category B heat

- State 6 - Low sensitivity / Category BS heat*

- State 7 - Medium optical / Category A2S heat

- State 8 - Delayed medium optical / Category A1 heat

- State 11 - Low sensitivity / Category B heat*

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting - (Category C: C-3-14 and Category O: O-4.5-14)

- Medium power setting - (Category C: C-3-13 and Category O: O-4-13)

- Low power setting - (Category C: C-3-10 and Category O: None)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

Bases:

S4-701 S Quad plate and base

S4-FLUSH semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 042bz to EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
S4-901	Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Short Circuit Isolator (S4-700 Standard Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Normal sensitivity / Category A1 heat - State 1 - High sensitivity / Category A1 heat - State 2 - Medium sensitivity / Category A1 heat - State 4 - Normal sensitivity (no spike) / Category A1 heat - State 6 - Low sensitivity / Category A1 heat* - State 7 - Normal sensitivity / Category A2S heat - State 9 - Category A1 heat* - State 11 - Normal sensitivity (no spike) / Category B heat - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. Carbon Monoxide Detection is not included in the scope of this approval.	042bz/01
S4-901-NM	Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Short Circuit Isolator (S4-700 Standard Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 – Normal sensitivity / Category A1 heat - State 1 – High sensitivity / Category A1 heat - State 2 – Medium sensitivity / Category A1 heat - State 4 – Normal sensitivity (no spike) / Category A1 heat - State 6 – Low sensitivity / Category A1 heat* - State 7 – Normal sensitivity / Category A2S heat - State 9 – Category A1 heat* - State 11 – Normal sensitivity (no spike) / Category B heat - State 12 – Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. Carbon Monoxide Detection is not included in the scope of this approval.	042bz/01

Bases:

S4-700 standard base

S4-FLUSH semi-flush fixing kit

S4-700-34K Fusion Adaptor base

Certificate No: 042ca to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005,

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
S4-711-V	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with	042ca/01

Speech (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**)

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4-771-S — Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor — 042ca/02

Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**)

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4-770-S — Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) — 042ca/03

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings

except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4BK-711-V

Analogue Addressable Dual Optical Smoke and Category P Heat Multi-sensor with Speech Sounder (Black Body Variant) (S4BK-700 Base with or without S4-FLUSH Semi-flush mounting kit) 042ca/04

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs/ Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4M-771-S

Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor 042ca/05

Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**)

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4M-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High Continuous 933 Hz · Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: · State 0 - Medium optical / Category A1 heat · State 2 Low sensitivity / Category A1 heat* · State 3 - High sensitivity / Category A1 heat · State 4 - Medium optical (no spike) / Category A1 heat · State 5 - Medium optical / Category B heat · State 6 Low sensitivity / Category BS heat* · State 7 - Medium optical / Category A2S heat · State 8 - Delayed medium optical / Category A1 heat · State 11 Low sensitivity / Category B heat* · State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/06
S4T-770-S	S4 Optical Heat Sensor Sounder (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High- Continuous 933 Hz · Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: · State 0 - Medium optical / Category A1 heat · State 2 Low sensitivity / Category A1 heat* · State 3 - High sensitivity / Category A1 heat · State 4 - Medium optical (no spike) / Category A1 heat · State 5 - Medium optical / Category B heat · State 6 Low sensitivity / Category BS heat* · State 7 - Medium optical / Category A2S heat · State 8 - Delayed medium optical / Category A1 heat · State 11 Low sensitivity / Category B heat* · State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/07
S4T-771-S	S4 Dual Optical Heat Sensor Sounder (Self Test Function) (S4-700 Standard Base with or	042ca/09

without S4-FLUSH Semi-flush mounting kit and S4-700-34K)

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4T-711-V

S4 Dual Optical Heat Sensor Voice Sounder (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) 042ca/10

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs/ Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4M-711-V

S4 Dual Optical Heat Sensor Voice Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) 042ca/11

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

· High Continuous 933 Hz

· Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

· State 0 - Medium optical / Category A1 heat

· State 2 Low sensitivity / Category A1 heat*

· State 3 - High sensitivity / Category A1 heat

· State 4 - Medium optical (no spike) / Category A1 heat

· State 5 - Medium optical / Category B heat

· State 6 Low sensitivity / Category BS heat*

· State 7 - Medium optical / Category A2S heat

· State 8 - Delayed medium optical / Category A1 heat

· State 11 Low sensitivity / Category B heat*

· State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

S4MB-711-V	S4 Dual Optical Heat Sensor Voice Sounder Black Body (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: · High Continuous 933 Hz · Alternate High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: · State 0 - Medium optical / Category A1 heat · State 2 Low sensitivity / Category A1 heat* · State 3 - High sensitivity / Category A1 heat · State 4 - Medium optical (no spike) / Category A1 heat · State 5 - Medium optical / Category B heat · State 6 Low sensitivity / Category BS heat* · State 7 - Medium optical / Category A2S heat · State 8 - Delayed medium optical / Category A1 heat · State 11 Low sensitivity / Category B heat* · State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/12

Bases:

S4-700 standard base

S4-701 S Quad plate and base

S4-FLUSH semi-flush fixing kit

S4BK-700 standard base (black)

S4BK-705 Black IP21 base covers (pack 5)

S4-700-34K Fusion Adaptor base

GEZE GmbH

Reinhold-Vöster-Str. 21-29, D-71229 Leonberg, Germany
Tel: +49 (0)7152-203-0
E-mail: info.de@geze.com • Website: www.geze.com

Certificate No: 928d-(cl-10) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
GC003 D	Conventional non-latching Category P heat detector (GC 150B relay base and GC160 B base) **Note:** 1. Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02

Bases

GC150 B Non-latching relay base

GC160 B Universal adaptor base

Certificate No: 928e-(cl-10) to EN 54-7: 2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
GC002 D	Conventional non-latching photo smoke detector (GC150 B relay base and GC160 B base)	928e/02

Bases

GC150 B Non-latching relay base

GC160 B Universal adaptor base

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London, W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330a-(cl-9) to EN 54-12: 2015

Commercial Detectors

Product Name	Description	LPCB Ref. No
GA7130	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	1330a/01

Accessories

Mounting Bracket

GA7130-R 1 x Mirror Reflector

GA7130-R 4 x Mirror Reflector

Base

GA7980 Detector Base

Certificate No: 1330b-(cl-5) to EN 54-7:2018

Product Name	Description	LPCB Ref. No
GA7100	Intelligent Smoke Detector (GA7980 base)	1330b/01

Base

GA7980 Detector Base

Certificate No: 1330c-(cl-5) to EN 54-5: 2017 + A1: 2018

Product Name	Description	LPCB Ref. No
GA7110	Intelligent Heat Detector (GA7980 base) Note: 1. Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base

GA7980 Detector Base

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province, 066004, China
Tel: +86 0335 8502434
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548c to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
DC-9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (DB-01 & DB-01D Bases and DP-9907 Unit) Note: 1. Meets the requirements of EN 54-5:2017 & A1: 2018 for Class A1R, A2S & BS	548c/03
DI-9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (DB-01 Base) Note: 1. Meets the requirements of EN 54-5:2017 + A1: 2018 for Class A1R, A2S & BS	548c/04

Bases:

DB-01 Standard base

DB-01D Diode base

DP-9907 Active end of line unit

Certificate No: 548d to EN 54-7: 2018

Point Smoke Detector

Product Name	Description	LPCB Ref. No
DC-9102E	Conventional Photoelectric Smoke Detector (DB-01 & DB-01D Bases and DP-9907 Unit) Note: 1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only	548d/03
DI-9102E	Intelligent Photoelectric Smoke Detector (DB-01 Base) Note: 1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only	548d/04

Bases:

DB-01 Standard Base

DB-01D Diode Base

DP-9907 Active End of Line Unit

Certificate No: 548k to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
DI-9105E	Intelligent Reflective Beam Detector " 1) Meets the requirements of EN 54-12 at the following sensitivity settings: · Level 1 - 1.3 dB · Level 2 - 1.8 dB (factory default) · Level 3 - 2.3 dB · Level 4 - 2.8 dB (not EN 54-12: 2015 approved) 2) Suitable for use at the following separation ranges in each sensitivity level: · Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask) · Span 2: 10 to 20 meters Short Path (1 x mirror reflector required) · Span 3: 20 to 40 meters Short Path (1 x mirror reflector required) · Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required) · Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)	548k/02
DC-9105E	Conventional Reflective Beam Detector Notes: 1) Meets the requirements of EN 54-12 at the following sensitivity settings: · Level 1 - 1.3 dB · Level 2 - 1.8 dB (factory default) · Level 3 - 2.3 dB · Level 4 - 2.8 dB (not EN 54-12: 2015 approved) 2) Suitable for use at the following separation ranges in each sensitivity level: · Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask) · Span 2: 10 to 20 meters Short Path (1 x mirror reflector required) · Span 3: 20 to 40 meters Short Path (1 x mirror reflector required) · Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required) · Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)	548k/03

Accessories

BK-9105R Mounting Bracket

RF-9105R 1 x Mirror Reflector

RF-9105R 4 x Mirror Reflector

NRM-9105 Non-Reflective Mask

Certificate No: 548q to EN54-5: 2017+ A1:2018, EN54-7: 2018, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
DI-9101E	Intelligent Combination Heat/Photoelectric Smoke Detector (DB-01 base) Notes: 1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A2R	548q/04
DI-9101E-B	Intelligent Combination Heat / Photoelectric Smoke Detector - Black Plastic (DB-01-B Base) Notes: 1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A2R	548q/04

Bases:

DB-01 Standard base

DB-01D Diode base

DP-9907 Active end of line unit

DB-01-B Standard Base - Black Plastic

Certificate No: 548q to EN 54-7:2018, CEA 4021, EN 54-5:2017 + A1:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
DC-9101E	Conventional Combination Heat / Photoelectric Smoke Detector (DB-01 & DB-01D Bases and DP-9907 Unit) Notes: 1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2017 + A1:2018 for Class A2R	548q/03
DC-9101E-B	Conventional Combination Heat / Photoelectric Smoke Detector – Black Plastic (DB-01-B & DB-01D Bases and DP-9907 Unit) Notes: 1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2017 + A1:2018 for Class A2R	548q/03

DB-01 Standard Base
DB-01D Diode Base
DP-9907 Active End of Line Unit

Hochiki America Corporation

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Tel: +1 714 522 2246
E-mail: sales@hochiki.com • Website: www.hochiki.com

Certificate No: 358c to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
ALN-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-EN (WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-E(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS, YBO-BSB, YBN/R/2NA) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08

Bases

YBN-R/3 Standard Base

YBO-R/SCI Positive switching short circuit isolator base

YBO-R/SCI(RED) Short circuit isolating base

YBO-BS Sounder base

YBO-BS(WHT) Sounder base

YBO-BSB Sounder base with Beacon

YBN-R/6 Standard Base

YBN-R/6SK Standard base with schottky diode

YBO-R/6R Relay Base

YBO-R/6RS Relay Base latching with schottky diode

YBO-R/6RN Relay base non latching

YBO-R-6PA Protector alarms base

YBN-R/3(SCI) Short circuit isolator base

Hochiki Europe (UK) Limited

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Certificate No: 117g-(cl-3) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
DCD-1E-IS	Catergory A1 Conventional Intrinsically Safe Fixed Temperature and Rate of Rise Heat Detector (YBN-R/4IS Base)	117g/01
DFJ-AE3	Category A1S Conventional Fixed Temperature Heat Detector - Ivory (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02
DFJ-AE3(HFP)	Category A1S Conventional Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02
DFJ-CE3	Category CS Conventional Fixed Temperature Heat Detector - Ivory (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03

DFJ-CE3(HFP)	Category CS Conventional Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03
DCD-AE3(HFP)	Category A1R Conventional Rate of Rise Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK and YBN-R/6,YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04
DCD-AE3	Category A1R Conventional Rate of Rise Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6,YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04
DFG-60BLKJ	Category A2 Conventional Fixed Temperature Water Resistant Heat Detector	117g/05
DCD-CE3(HFP)	Conventional Category CR Rate of Rise High Temperature Heat Detector - White (YBN-R/6M Base)	117g/06
ACB-EW	Weather Proof Intelligent Analogue Addressable Category P Heat Detector (YBN-R/3 base) Note: Categories A1R, A1S, BR, BS, CR and CS when used with ACB-E protocol and categories A1S, BS and CS when used with ATG-E protocol.	117g/10
DFG-60BLJ	Conventional Category A2 Fixed Temperature Water Resistant Heat Detector	117g/12
DCD-AE3(WHT)	Category A1R Conventional Rate of Rise Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK and YBN-R/6,YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04
DCD-CE3(WHT)	Conventional Category CR Rate of Rise High Temperature Heat Detector - White (YBN-R/6M Base)	117g/06
DCD-CE3	Conventional Category CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base)	117g/06
DFJ-AE3(WHT)	Conventional Category A1S Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02
DFJ-CE3(WHT)	Conventional Category CS Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03

Base:

YBV-R/4 Addressable detector base

YBV-R/4(WHT) Addressable detector base (White)

YBV-R/4(HFP) Addressable detector base (White)

YBN-R/3 Addressable detector base

YBO-BS Base sounder

YBO-BS(WHT) Base sounder (White)

YBN-R/3(SCI) Short circuit isolator base

YBN-R/3(WHT)-SCI Short circuit isolator base (White)

YBO-BSB2/WL Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)

YBO-BSB2/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)

YBN-R/3(WHT) Addressable Standard Mounting Base (White Plastic)

YBN-R/R4IS(WHT) Conventional Intrinsically Safe Mounting Base (White Plastic)

YBN-R/6(WHT) Conventional Standard Mounting Base (White Plastic)

YBN-R/6M(WHT) Conventional Standard Marine Mounting Base (White Plastic)

YBN-R/6SK(WHT) Conventional Schottky Diode Mounting Base (White Plastic)

YBO-BS(WHT) Addressable Base Sounder (White Plastic)

YBO-R/6PA(WHT) Conventional 2 Wire S Mounting Base

YBO-R/6R(WHT) Conventional Relay Mounting Base Latching (White Plastic)

YBO-R/6RS(WHT) Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)

YBO-R/6RN(WHT) Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)

YBN-R/3(WHT)-SCI Addressable Short Circuit Isolating Mounting Base (White Plastic)

YBO-BSB2(BLK)/RL Addressable Base Sounder Beacon (Red LED) - Black Plastic

YBO-BSB2(BLK)/WL Addressable Base Sounder Beacon (White LED) - Black Plastic

Certificate No: 117j to

Beam Detectors

Product Name	Description	LPCB Ref. No
SPC-E	Conventional 4 wire optical beam smoke detector Notes: 1) Approved at sensitivity setting 25% and 50%	117j/02
SPC-ET	Conventional 2 wire optical beam smoke detector Notes: 1) Approved at sensitivity setting 25% and 50% 2) Approved for use with SPC-ET2WI interface kit	117j/03
SPC-ET(HFP)	Conventional 2 wire optical bem smoke detector. Notes: 1) Approved at sensitivity setting 25% and 50% 2) Approved for use with SPC-ET2WI interface kit	117j/03

Certificate No: 117k to EN 54-10: 2002 + A1: 2005

Flame Detectors

Product Name	Description	LPCB Ref. No
DRD-E	Conventional Class 1 IR Flame Detector (YBN-R/6SK, YBN-R/6, YBO-R/6R, YBO-R/6RN, YBO-R/6PA, YBO-R/6RS)	117k/01

Bases

YBN-R/6SK Conventional Schottky diode base

YBN-R/6 Conventional standard base

YBO-R/6R Conventional latching relay base

YBO-R/6RN Conventional non-latching relay base

YBO-R/6PA Conventional 2 wire base

YBO-R/6RS Conventional latching relay base with integral Schottky diode

All Enquiries to:

Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom

Manufacturing at (Certificate Nos. 117, 117f, 117g, 117h, 117j)
Hochiki Corporation, 141-1 Maehara Ejiri, Kakuda-shi, Miyagi 971-15, Japan
Email: overseas@hochiki.co.jp

Manufacturing at (Certificate Nos. 164, 164g, 164m)
Hochiki Europe (UK) Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom
Email: sales@hochikieurope.com

Manufacturing at (Certificate Nos. 358, 358c)
Hochiki America Corporation, 7051 Village Drive, Buena Park, California, 90621, USA
Email: overseas@hochiki.co.jp

Certificate No: 117p-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-26:2015, EN 54-29:2015, EN 54-30:2015, EN 54-31:2015, CEA 4021:2003

Heat Detectors

Product Name	Description	LPCB Ref. No
ACD-E(WHT)	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) **Notes:** 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% **Modes:** 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Category A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Category A1R) 89 Heat (FT) (Fixed Level 3 - Category A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Category C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Category CR) 8C Heat (FT) (Fixed Level 6 - Category CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Category A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Category A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Category C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Category CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Category CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb	117p/01

	9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	
ACD-E(HFP)	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) **Notes:** 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% **Modes:** 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Category A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Category A1R) 89 Heat (FT) (Fixed Level 3 - Category A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Category C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Category CR) 8C Heat (FT) (Fixed Level 6 - Category CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Category A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Category A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Category C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Category CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Category CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	117p/01
ACD-EN	Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)	117p/02

Notes:

1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR

2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%

Modes:

9A* Smoke/Heat/Co Combine (Default Mode)

9B Co/Heat combine, Heat (RoR)

80* Smoke/Heat combine

81 Smoke/Heat combine

82* Smoke

83 Smoke

87 Heat (FT) Heat (RoR) (Fixed Level 1 - Category A1)

88 Heat (FT) Heat (RoR) (Fixed Level 2 - Category A1R)

89 Heat (FT) (Fixed Level 3 - Category A1S)

8A Heat (FT) Heat (RoR) (Fixed Level 4 - Category C)

8B Heat (FT) Heat (RoR) (Fixed Level 5 - Category CR)

8C Heat (FT) (Fixed Level 6 - Category CS)

8D Smoke, Co, Heat (FT), Heat (RoR), COHb

8E* Smoke/Heat Combine, COHb

8F* Smoke, COHb

93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Category A1) +COHb

94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb

95 Heat (FT), COHb (Fixed Level 3 - Category A1S) +COHb

96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Category C) +COHb

97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Category CR) +COHb

98 Heat (FT), COHb (Fixed Level 6 - Category CS) +COHb

99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb

9C COHb

9D CO

FT = Fixed Temperature

RoR = Rate of Rise

COHb = Carboxyhemoglobin

* Reduced false alarm function

ACD-EN(WHT)	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)	117p/02

Notes:

1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR

2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%

Modes:

9A* Smoke/Heat/Co Combine (Default Mode)

9B Co/Heat combine, Heat (RoR)

80* Smoke/Heat combine

81 Smoke/Heat combine

82* Smoke

83 Smoke

87 Heat (FT) Heat (RoR) (Fixed Level 1 - Category A1)

88 Heat (FT) Heat (RoR) (Fixed Level 2 - Category A1R)

89 Heat (FT) (Fixed Level 3 - Category A1S)

8A Heat (FT) Heat (RoR) (Fixed Level 4 - Category C)

8B Heat (FT) Heat (RoR) (Fixed Level 5 - Category CR)

8C Heat (FT) (Fixed Level 6 - Category CS)

8D Smoke, Co, Heat (FT), Heat (RoR), COHb

8E* Smoke/Heat Combine, COHb

8F* Smoke, COHb

93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Category A1) +COHb

94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb

95 Heat (FT), COHb (Fixed Level 3 - Category A1S) +COHb

96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Category C) +COHb

97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Category CR) +COHb

98 Heat (FT), COHb (Fixed Level 6 - Category CS) +COHb

99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb

9C COHb

9D CO

FT = Fixed Temperature

RoR = Rate of Rise

COHb = Carboxyhemoglobin

* Reduced false alarm function

Bases:

YBN-R/4IS Conventional Intrinsically Safe Mounting base

YCA-RL/3H2M Addressable base

YBN-R/6SK Schottky diode base

YBN-R/6 Standard base

YBN-R/3 Standard Analogue Mounting Base

YBN-R/3(WHT) Standard Analogue Mounting Base

YBN-R/3(SCI) Short circuit isolator base

YBN-R/3(WHT)-SCI Short circuit isolator base

YBO-RSCI/NS Negative Switching Short circuit isolating base

YBF-RL/4H3H 2 wire common mounting base

YBF-RL/4H5H 2 wire common mounting base

YBN-R/6M Standard Base

YBO-BS Base sounder

YBO-BS(WHT) Base sounder

YBO-R/6PA Protector alarms base

YBO-R/6R Relay base

YBO-R/6RS Relay latching base with Schottky diode

YBO-R/6RN Relay base non-latching

YBN-R/3(SCI) Short circuit Isolating base

YBO-BSB2/WL Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)

YBO-BSB2/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/WL-HFP Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/RL-HFP Base Sounder Beacon (Red LED)

RSM-WDB Wireless Adaptor Base

YBN-R/3(WHT) Addressable Standard Mounting Base (White Plastic)

YBN-R/R4IS(WHT) Conventional Intrinsically Safe Mounting Base (White Plastic)

YBN-R/6(WHT) Conventional Standard Mounting Base (White Plastic)

YBN-R/6M(WHT) Conventional Standard Marine Mounting Base (White Plastic)

YBN-R/6SK(WHT) Conventional Schottky Diode Mounting Base (White Plastic)

YBO-BS(WHT) Addressable Base Sounder (White Plastic)

YBO-R/6PA(WHT) Conventional 2 Wire S Mounting Base

YBO-R/6R(WHT) Conventional Relay Mounting Base Latching (White Plastic)

YBO-R/6RS(WHT) Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)

YBO-R/6RN(WHT) Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)

YBN-R/3(WHT)-SCI Addressable Short Circuit Isolating Mounting Base (White Plastic)

YBO-BSB2(BLK)/RL Addressable Base Sounder Beacon (Red LED) - Black Plastic

YBO-BSB2(BLK)/WL Addressable Base Sounder Beacon (White LED) - Black Plastic

YBO-R/SCI(RED) Short Circuit Isolator Base

YBV-R/4 Addressable Detector Base YBV-R/4(WHT) Addressable Detector Base (White)

YBO-BS(BLK) Base Sounder

YBO-BSB2(BLK)/RL Base Sounder Beacon

YBO-BSB2(BLK)/WL Base Sounder Beacon

Certificate No: 164aa to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ACC-EN(SCI)	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-EN(WHT)-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes:	164aa/01

	Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi)	
	Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only)	
	Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	
ACC-EN(BLK)-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator	164aa/01
	Notes:	
	Certificated at the following modes:	
	Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi)	
	Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only)	
	Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	

Bases

YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(SCI) Short Circuit Isolator Base

YBN-R/3(WHT)-SCI Short Circuit Isolator Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBO-BS Base Sounder

YBO-BS(WHT) Base Sounder (White)

YBO-BSB2/RL Base Sounder Beacon (Red LED) YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED) YBO-BSB2/WL Base Sounder Beacon (White LED) YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED) YBV-R/4 Addressable Detector Base YBV-R/4(WHT) Addressable Detector Base (White)

YBO-BS(BLK) Base Sounder

YBO-BSB2(BLK)/RL Base Sounder Beacon

YBO-BSB2(BLK)/WL Base Sounder Beacon YBN-R/3(BLK) Addressable detector base (Black)

YBN-R/3(BLK)-SCI Short circuit isolator base (Black)

YBO-BS(BLK) Base sounder (Black)

YBO-BSB2(BLK)/RL Base Sounder Beacon (Black) (Red LED)

YBO-BSB2(BLK)/WL Base Sounder Beacon (Black) (White LED) YBV-R/4(BLK) Standard base

Certificate No: 164ab to EN 54-5:2017+A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
ATJ-E(WHT)-SCI	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator	164ab/01
	Note:	
	Meets the requirements of EN 54-5 for categories A1R, BR, CR, A1S, BS & CS	
ATJ-EN(SCI)	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator	164ab/02
	Note:	
	Meets the requirements of EN 54-5 for categories A1R, BR, CR, A1S, BS & CS	
ATJ-EN(WHT)-SCI	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator	164ab/02
	Note:	
	Meets the requirements of EN 54-5 for categories A1R, BR, CR, A1S, BS & CS	
ATJ-EN(BLK)-SCI	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator	164ab/02
	Note:	

	Meets the requirements of EN 54-5 for categories A1R, BR, CR, A1S, BS & CS	
ATJ-E(HFP)-SCI	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5 for categories A1R, BR, CR, A1S, BS & CS	164ab/01

Bases

YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(SCI) Short Circuit Isolator Base

YBN-R/3(WHT)-SCI Short Circuit Isolator Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBO-BS Base Sounder

YBO-BS(WHT) Base Sounder (White)

YBO-BSB2/RL Base Sounder Beacon (Red LED) YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED) YBO-BSB2/WL Base Sounder Beacon (White LED) YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED) YBV-R/4 Addressable Detector Base YBV-R/4(WHT) Addressable Detector Base (White)

YBO-BS(BLK) Base Sounder

YBO-BSB2(BLK)/RL Base Sounder Beacon

YBO-BSB2(BLK)/WL Base Sounder Beacon

YBN-R/3(BLK) Addressable detector base (Black)

YBN-R/3(BLK)-SCI Short circuit isolator base (Black)

YBO-BS(BLK) Base sounder (Black)

YBO-BSB2(BLK)/RL Base Sounder Beacon (Black) (Red LED)

YBO-BSB2(BLK)/WL Base Sounder Beacon (Black) (White LED)

YBV-R/4(BLK) Standard base

Certificate No: 164ac to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ACC-EN	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at class A1 & C	164ac/01
ACC-EN(WHT)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at class A1 & C	164ac/01
ACC-EN(BLK)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL, YBN-	164ac/01

R/3(BLK), YBN-R/3(BLK)-SCI, YBO-BS(BLK), YBO-BSB2(BLK)/RL, YBO-BSB2(BLK)/WL and YBV-R/4(BLK) bases)

Note:

Certificated at the following modes:

Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity

Mode 1 Optical smoke detector at 2% and 4.5% sensitivity

Mode 2 Fixed temperature heat detector at class A1 & C

Bases

YBN-R/3 Addressable detector base

YBO-BS Base sounder

YBN-R/3(SCI) Short circuit isolator base

YBO-BSB2/WL Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)

YBO-BSB2/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)

YBN-R/3(BLK) Addressable detector base (Black)

YBN-R/3(BLK)-SCI Short circuit isolator base (Black)

YBO-BS(BLK) Base sounder (Black)

YBO-BSB2(BLK)/RL Base Sounder Beacon (Black) (Red LED)

YBO-BSB2(BLK)/WL Base Sounder Beacon (Black) (White LED)

YBV-R/4(BLK) Standard base

Certificate No: 164g to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SOC-E-IS	Conventional Optical Smoke Detector - Ivory Plastic (YBN-R/4IS)	164g/10
SOC-E-IS(WHT)	Conventional Optical Smoke Detector - White Plastic (YBN-R/4(WHT)-IS)	164g/10

Bases

YBN-R/4C Conventional mounting base

YBO-BS Sounder base

YBO-R/6R Relay base

YBO-R/6RS Relay base latching with Schottky diode

YBO-R/6RN Relay base non latching

YBO-R/6PA Protector alarms base

YBN-R/3 Standard base

YBN-R/6 Standard base

YBN-R/6SK Standard base with Schottky diode

YBO-BS Sounder base

YBN-R/3(SCI) Short circuit isolator base

YBO-BSB2/WL Base sounder beacon (White LED)

YBO-BSB2(WHT)/WL Base sounder beacon (White LED)

YBO-BSB2/RL Base sounder beacon (Red LED)

YBO-BSB2(WHT)/RL Base sounder beacon (Red LED)

RSM-WDB Wireless adaptor base

YBV-R/4 Addressable detector base

YBN-R/4(WHT)-IS Remote indicator base white

YBN-R/4IS Remote indicator base

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom

Manufacturing at (Certificate Nos 164, 164g, 164m)
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom
Email: sales@hochikieurope.com

Certificate No: 164m to EN54-10:2002

Flame Detectors

Product Name	Description	LPCB Ref. No
IFD-E	Conventional IR^3 Flame detector (IFD-MB) *Note: Meets EN 54-10: 2002 at Class 1 only*	164m/01
IFD-E(IS)	Conventional IR^3 Intrinsically Safe Flame Detector (IFD-MB) *Note: Meets EN 54-10: 2002 at Class 1 only*	164m/02
IFD-E(EXD)	Conventional IR^3 (Exd) Flameproof Flame Detector (IFD-MB) *Note: Meets EN 54-10: 2002 at Class 1 only*	164m/03

Certificate No: 164w to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ACC-E(WHT)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/01
ACC-E(HFP)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2(WHT)/WL-HFP and YBO-BSB2(WHT)/RL-HFP bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/01

Bases:

YBN-R/3 Standard base

YBN-R/2NA Base

YBN-R/4IS Intrinsically safe mounting

base

YCA-RL/3H2 Addressable base

YCA-RL/5H2 Master addressable base

AMU-B2 Addressable base

AMU-MB Master addressable base

YBC-RL/4H5 Base

YBF-RL/3J Slave base

YBF-RL/4H5 Base

YBK-RL/4H1A Base

YBK-RL/4H2 Base

YCA-RL/3H2M Addressable base

YBN-R/6SK Schottky diode base

YBN-R/6 Standard base

YBN-R/4 Base

YBN-R/6M Standard base

YBO-BS Base Sounder

YBO-BS(WHT) Base sounder (White)

YBO-R/5 Base

YBN-R/4M Base

YBO-R/5M Base

YBO-R/6R Relay base

YBO-R/6RS Relay base latching with schottky diode

YBO-R/6RN Relay base non latching

YBO-R/6PA Protector alarms base

YBO-RSCI/NS Negative Switching Short circuit isolating base

YBF-RL/4H3H 2 wire mounting base

YBF-RL/4H5H 2 wire mounting base

RSM-WDB Wireless Adaptor Base

YBN-R/3(SCI) Short circuit isolator base

YBN-R/3(WHT)-SCI Short circuit isolator base (White)

YBO-BSB2/WL Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)

YBO-BSB2/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/WL-HFP Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/RL-HFP Base Sounder Beacon (Red LED)

YBV-R/4 Addressable detector base

YBV-R/4(WHT) Addressable detector base (White)

YBV-R/4(HFP) Addressable detector base (White)

YBN-R/3 Addressable detector base

YBN-R/3(WHT)-SCI Short circuit isolator base (White)

YBN-R/3(WHT) Standard Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBO-BS(BLK) Base Sounder

YBO-BSB2(BLK)/RL Base Sounder Beacon

YBO-BSB2(BLK)/WL Base Sounder Beacon

YBN-R/3(BLK) Addressable detector base (Black)

YBN-R/3(BLK)-SCI Short circuit isolator base (Black)

YBO-BS(BLK) Base sounder (Black)

YBO-BSB2(BLK)/RL Base Sounder Beacon (Black) (Red LED)

YBO-BSB2(BLK)/WL Base Sounder Beacon (Black) (White LED)

YBV-R/4(BLK) Standard base

[LP] denotes detector/base combination is approved in low power mode also.

Certificate No: 164y to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
ATJ-E(WHT)	Intelligent Analogue Addressable Category P Heat Detector (YBN-R/3, YBN-R/3(SCI), YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Categories A1R, BR, CR, A1S, BS and CS.	164y/01
ATJ-EN	Intelligent Analogue Addressable Category P Heat Detector (YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Categories A1R, BR CR, A1S, BS and CS.	164y/02
ATJ-EN(WHT)	Intelligent Analogue Addressable Category P Heat Detector (YBN-R/3, YBO-BS YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Categories A1R, BR, CR, A1S, BS and CS.	164y/02
ATJ-EN(BLK)	Intelligent Analogue Addressable Category P Heat Detector (YBN-R/3, YBO-BS YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Categories A1R, BR, CR, A1S, BS and CS.	164y/02
ATJ-E(HFP)	Intelligent Analogue Addressable Category P Heat Detector (YBN-R/3, YBN-R/3(SCI), YBO-BS, YBO-BSB2(WHT)/WL-HFP and YBO-BSB2(WHT)/RL-HFP bases) Note: Categories A1R, BR, CR, A1S, BS and CS.	164y/01

Bases

YBN-R/3 Addressable detector base

YBO-BS Base sounder

YBN-R/3(SCI) Short circuit isolator base

YBO-BSB2/WL Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)

YBO-BSB2/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)

YBN-R/3(BLK) Addressable detector base (Black)

YBN-R/3(BLK)-SCI Short circuit isolator base (Black)

YBO-BS(BLK) Base sounder (Black)

YBO-BSB2(BLK)/RL Base Sounder Beacon (Black) (Red LED)

YBO-BSB2(BLK)/WL Base Sounder Beacon (Black) (White LED)

YBV-R/4(BLK) Standard base

Certificate No: 164z to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ACC-E(WHT)-SCI	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Enclosure) Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164z/01

Bases

YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(SCI) Short Circuit Isolator Base

YBN-R/3(WHT)-SCI Short Circuit Isolator Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBO-BS Base Sounder

YBO-BS(WHT) Base Sounder (White)

YBO-BSB2/RL Base Sounder Beacon (Red LED) YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED) YBO-BSB2/WL Base Sounder Beacon (White LED) YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED) YBV-R/4 Addressable Detector Base YBV-R/4(WHT) Addressable Detector Base (White)

YBO-BS(BLK) Base Sounder

YBO-BSB2(BLK)/RL Base Sounder Beacon

YBO-BSB2(BLK)/WL Base Sounder Beacon

Certificate No: 358c-(cl-3) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
ALN-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-EN(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (white) (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note:	358c/07

	1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	
ALN-E(HFP)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08
SOC-E3N	Conventional Optical Smoke Detector (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09
SOC-E3N(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09
SOC-E3(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10
SOC-E3(HFP)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10

Bases

YBN-R/3 Standard base

YBO-BS Sounder base

YBN-R/6 Standard base

YBN-R/6SK Standard base with schottky diode

YBO-R/6R Relay base

YBO-R/6RS Relay base latching with schottky diode

YBO-R/6RN Relay base non latching

YBO-R-6PA Protector alarms base

YBN-R/3(SCI) Short circuit isolator base

YBO-BSB2/WL Base Sounder Beacon (White LED)

YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)

YBO-BSB2/RL Base Sounder Beacon (Red LED)

YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)

Certificate No: 358e-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
ALN-E(WHT)-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/01
ALN-E(HFP)-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/01
ALN-EN(SCI)	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, Ivory Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases)	358e/02

	Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	
ALN-EN(WHT)-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/02

Bases

YBV-R/4 Addressable detector base

YBN-R/3 Standard base

YBO-BS Sounder base

YBO-BSB2/WL Base sounder beacon (White LED)

YBO-BSB2(WHT)/WL Base sounder beacon (White LED)

YBO-BSB2/RL Base sounder beacon (Red LED)

YBO-BSB2(WHT)/RL Base sounder beacon (Red LED)

Manufacturing at (Certificate Nos 164, 164g, 164m)
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom
Email: sales@hochikieurope.com

Certificate No: 358f-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
ALN-EN (BLK)	Intelligent Analogue Addressable Optical Smoke Detector (Black) (YBN-R/3(SCI), YBN-R/3(BLK), YBO-BS, YBO-BSB2(BLK)/WL, YBO-BSB2(BLK)/RL bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358f/01

Products Extras

YBN-R/3(SCI)	Short circuit isolator base
YBN-R/3(BLK)	Standard base (Black)
YBO-BS	Sounder base
YBO-BSB2(BLK)/WL	Base sounder beacon (White LED)
YBO-BSB2(BLK)/RL	Base sounder beacon (Red LED)

Honeywell Analytics Inc.

Honeywell Analytics Inc., 405 Barclay Boulevard, Lincolnshire, Illinois, 60069, USA
Tel: +1 847 955 4040
E-mail: charlene.numrych@honeywell.com

Certificate No: 1175a to EN54-10:2002 + A1: 2005

Flame Detectors

Product Name	Description	LPCB Ref. No
FS20X	Conventional Class 1 Multi-Spectrum, Multi-Spectral and Multi-Band Infrared and Ultraviolet Fire and Flame Detector (SM4 mount) Note: 1. Meets EN 54-10: 2002 at Class 1 for very high, high & medium sensitivities Low sensitivity is not LPCB approved	1175a/01
FS24X-9	Conventional Class 1 Multi-Spectrum and Multi-Spectral Infrared Fire and Flame Detector (SM4 mount)	1175a/02

	Note: 1. Meets EN 54-10: 2002 at Class 1 for very high & high sensitivities	
FS24X Plus	IR Flame Detector (SM4 mount) Note: 1. Meets EN 54-10:2002 at the following: Class 1 for very high and high sensitivities Class 2 for medium sensitivities Class 3 for low sensitivities	1175a/03

SM4 Swivel Mount

Honeywell Automation (I) Pvt. Ltd

53, 54, 55 Hadapasar Indl. Estate, Hadapsar, Pune-411013, India
Tel: +91 020 66780200
E-mail: rahul.dwivedi@honeywell.com • Website: www.honeywell.com

Certificate No: 550a to
Certificate No: 550d to

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
TC806ES1012-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Meets the requirements of EN 54-7 at high and low sensitivity*	550a/04
TC806EIS1012-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Meets the requirements of EN 54-7 at high and low sensitivity*	550d/01

Bases:

14506414-007 standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550b to
Certificate No: 550e to

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
TC840MES-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550b/05

	2) Certified at the following settings: - *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	
TC840MEIS-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	550e/02

Bases:

1450614-007 Standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550c to
Certificate No: 550f to

Point Heat Detectors

Product Name	Description	LPCB Ref. No
TC808ES1028-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/06
TC808ES1002-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/07
TC808EIS1028-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550f/01
TC808EIS1002-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550f/02

Bases:

14506414-007 Standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Honeywell Control Systems Limited

Honeywell House, Arlington Business Park, Bracknell, Berkshire, RG12 1EB, United Kingdom
Tel: +44 (0)1344 655609
Website: www.honeywell.com

Certificate No: 199aa-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
TC840MFEIS	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7& CEA 4021: 2003* Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
TC840MEIS	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7* *& CEA 4021: 2003* Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ab-(cl-1) to EN 54-7: 2018 & EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
TC806EIS1012	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
TC846E1005	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/02

Bases:

B501 Analogue detector base

B501DG Analogue deep base

B501AP Intelligent detector base

B524IEFT Analogue short circuit isolator base

B524IEFT-1 Analogue short circuit isolator base

B524HTR Heater Base

B524RTE Latching relay base

Certificate No: 199ac-(cl-1) to EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Point Heat Detectors

Product Name	Description	LPCB Ref. No
TC808EIS1002	Analogue addressable Category A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/01
TC808EIS1051	Analogue addressable Category BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/02
TC808EIS1028	Analogue addressable Category A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/03

Bases:

B501 analogue detector base

B501AP intelligent sensor base

B501DG analogue deep base

B524IEFT analogue short circuit isolator base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199m-(cl-1) to EN 54-7: 2018

Point Smoke Detectors/Sensors

Product Name	Description	LPCB Ref. No
TC842B1007 AE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP bases) Note: Meets EN54-7 at High, Normal & Low sensitivity settings	199m/07
TC806ES1012	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199m/10

Bases:

B501 Analogue detector base

B501DG Analogue deep base

B501AP Intelligent detector base

B524IEFT Analogue short circuit isolator base

B524IEFT-1 Analogue short circuit isolator base

B524HTR Heater Base

B524RTE Latching relay base

Certificate No: 199t-(cl-1) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
TC850E1009-yy	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501DG and B524IEFT-1 bases) Notes: 1.) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	199t/01

2.) Certified at the following settings: -

Normal Mode:

Alarm Levels 1 to 5 (Multi-criteria): EN54-5 Category A1R, EN54-7,

LPS1279 and CEA 4021

Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R

Nuisance Environment Applications:

Application 0,Alarm Level 4 LPS1279 & CEA 4021

Application 1,Alarm Level 5 EN54-5 Category A1R, EN54-7

& CEA 4021

Application 2,Alarm Level 4 or 5 EN54-5 Category A1R, EN54-7

& CEA 4021

Application 3,Alarm Level 5 EN54-5 Category A1R, EN54-7

& CEA 4021

Application 4,Alarm Level 5 EN54-5 Category A1R, EN54-7

& CEA 4021

Application 5,Alarm Level 5 EN54-7 & CEA 4021

Application 6,Alarm Level 5 EN54-5 Category A1R, EN54-7

& CEA 4021

Application 7,Alarm Level 5 EN54-5 Category A1R, LPS1279

& CEA 4021

Bases:

B501 standard analogue detector base

B524IEFT-1 analogue short circuit isolator base

Honeywell International (India) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon - 122 004, Haryana, India
Tel: +91 124 4752700
E-mail: amrish.sharma@honeywell.com • Website: www.systemsensor.com

Certificate No: 550a to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
2351E	Conventional photoelectric smoke detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) Note: Meets the requirements of EN54-7 at low, medium & high sensitivity settings.	550a/01
ECO1003	Conventional photoelectric smoke detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	550a/02
FL/1003	Conventional photoelectric smoke detector (FL/1000B base)	550a/02
22051E-xx-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:*	550a/04

	1) xx = (Range 0-99) ~ indicates the communication software protocol *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *3) meets the requirements of EN 54-7 at high and low sensitivity*	
2351/EIA	Conventional Photoelectric Smoke Detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD Bases) Note: 1. Meets the requirements of EN54-7 at low & high sensitivity settings.	550a/06
2351/EC	Conventional Photoelectric Smoke Detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD Bases) Note: 1. Meets the requirements of EN54-7 at high sensitivity setting only.	550a/07
2351/ECI	Conventional Smoke Detector (Mounting Base) Notes: 1. Meets the requirements of EN 54-7 at a single sensitivity setting only.	550a/08

Bases:

B401 standard base

B401DG deep base

B401R standard base with schottky diode

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

B501 standard analogue detector base

B501DG deep analogue detector base

FL/B401 standard base

FL/1000B standard base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

BFA1 standard base

Certificate No: 550b to EN54-5: 2017 + A1: 2018, EN54-7: 2018 & CEA 4021: 2003

Multi Criteria Detectors

Product Name	Description	LPCB Ref. No
2351TEM	Conventional optical/thermal detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) Note: Meets the requirements of EN54-5 at Category A1R and EN54-7 at low, medium & high sensitivity settings.	550b/01
ECO1002	Conventional photo-thermal detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases) *Note: Meets the requirements of EN 54-5 at category A1R at pre-set sensitivity.*	550b/02
FL/1002	Conventional optical/thermal detector (FL/1000B base) *Notes: Meets the requirements of EN54-5 at category A1R at pre-set sensitivity*	550b/02
22051TLE-xx-yy	Analogue addressable photo-thermal-IR multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *3) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	550b/04
22051TE-xx-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *3)Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 catgory A1R*	550b/05

Bases:

B401 standard base

B401DG deep base

B401R standard base with schottky diode

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

B501 standard analogue detector base

B501DG deep analogue detector base

B5241EFT-1 analogue short circuit isolator base

FL/B401 standard base

FL/1000B standard base

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

BFA1 standard base

Certificate No: 550c to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
5351E	Category A1R conventional rate of rise heat detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) Note: Meets the requirements of EN54-5 at category A1R.	550c/01
4351E	Category BS conventional heat detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) Note: Meets the requirements of EN54-5 at category BS.	550c/02
ECO1005	Conventional A1R rate-of-rise heat detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	550c/03
FL/1005	Conventional Category A1R rate of rise heat detector (FL/1000B base)	550c/03
52051RE-xx-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/06
52051E-xx-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/07

5FA51R	Conventional A1R rate of rise heat detector (BFA1 base)	550c/08
5351/ECI	Conventional A2R Heat Detector (Mounting Base)	550c/09

Bases:

B401 standard base

B401DG deep base

B401R standard base with schottky diode

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

FL/B401 standard base

FL/1000B standard base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

BFA1 Standard Base

Certificate No: 550d to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
22051EI-xx-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *3) Meets the requirements of EN 54-7 at high and low sensitivity*	550d/01

Bases:

B401 standard base

B401DG deep base

B401R standard base with schottky diode

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

B501 standard analogue detector base

B501DG deep analogue detector base

FL/B401 standard base

FL/1000B standard base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

BFA1 standard base

Certificate No: 550e to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN 54-17: 2005 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
22051TLEI-xx-yy	Analogue addressable photo-thermal-IR multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *3) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/01
22051TEI-xx-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* *2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *3) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/02

Bases:

B401 standard base

B401DG deep base

B401R standard base with schottky diode

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

B501 standard analogue detector base

B501DG deep analogue detector base

B5241EFT-1 analogue short circuit isolator base

FL/B401 standard base

FL/1000B standard base

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

BFA1 standard base

Certificate No: 550f to EN54-5: 2017 + A1: 2018 and EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
52051REI-xx-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
52051EI-xx-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:

B401 standard base

B401DG deep base

B401R standard base with schottky diode

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

B501 standard analogue detector base

B501DG deep analogue detector base

B5241EFT-1 analogue short circuit isolator base

FL/B401 standard base

FL/1000B standard base

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

BFA1 standard base

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E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 524c-(cl-1) to EN 54-20:2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
ALL-SPEC ASD	**Notes:** 1. Approval of the detector is conditional upon the following requirements: · For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. · System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1 HW. · The detector shall be installed with sampling pipe conforming to EN 61386-1, to at	524c/01

least Class 1131.

2. Approved detector configurations (Class A, Class B and Class C):

· ALL-SPECx (standard version, no bargraph display, 1 alarm, not available for networking)

· ALL-SPECx-FR (deep freeze version, no bargraph display, 1 alarm, not available for networking)

· ALL-SPECx-SL (silent version, no bargraph display, 1 alarm, not available for networking)

X=detector 1 or 2

3. The approved detector must incorporate one or two of the following detector modules:

· ASD-TP-001-L (standard version, sensitivity of 0.015%/m)

· ASD -TP-001-L-F (deep freeze version, sensitivity of 0.015%/m)

· ASD -TP-01-L (standard version, sensitivity of 0.10%/m)

· ASD -TP-01-L-F (deep freeze version, sensitivity of 0.10%/m)

· ASD -TP-05-L (standard version, sensitivity of 0.50%/m)

· ASD -TP-05-L-F (deep freeze version, sensitivity of 0.50%/m)

X=detector 1 or 2

HI-SPEC ASD

Notes: 524c/03

1. Approval of the detector is conditional upon the following requirements:

· For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.

· System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1 HW.

· The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.

2. Approved detector configurations (Class A, Class B and Class C):

· HI-SPECx (standard version, bargraph display, 3 alarms, prepared for networking)

· HI-SPECx-FR (deep freeze version, bargraph display, 3 alarms, prepared for networking)

· HI-SPECx -SL (silent version, bargraph display, 3 alarms, prepared for networking)

3. The approved detector must incorporate one or two of the following detector modules:

· ASD-TT-001-L (standard version, sensitivity of 0.015%/m)

· ASD -TT-001-L-F (deep freeze version, sensitivity of 0.015%/m)

· ASD -TT-01-L (standard version, sensitivity of 0.10%/m)

· ASD -TT-01-L-F (deep freeze version, sensitivity of 0.10%/m)

· ASD -TT-05-L (standard version, sensitivity of 0.50%/m)

· ASD -TT-05-L-F (deep freeze version, sensitivity of 0.50%/m)

COMPACT ASD

Notes: 524c/04

1. Approval of the detector is conditional upon the following requirements:

· For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.

· System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1 HW.

· The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.

2. Approved detector configurations, sensitivity of 0.50%/m (Class A, Class B and Class C):

· ASD-CM (version with 2 stages of alarm)

· ASD-CM2 (version with 2 stages of alarm, ROOM IDENT)

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Certificate No: 550a to
Certificate No: 550d to

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
MI-PSE-S2-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Meets the requirements of EN 54-7 at high and low sensitivity*	550a/04
MI-PSE-S2I-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Meets the requirements of EN 54-7 at high and low sensitivity*	550d/01

Bases:

MI-B501 standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550b to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003
Certificate No: 550e to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
MI-PTIR-S2-yy	Analogue addressable photo-thermal-IR multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	550b/04
MI-PTSE-S2-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:*	550b/05

	1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	
MI-PTIR-S2I-yy	Analogue addressable photo-thermal-IR multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	550e/01
MI-PTSE-S2I-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	550e/02

Bases:

MI-B501 Standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550c to
Certificate No: 550f to

Point Heat Detectors

Product Name	Description	LPCB Ref. No
MI-RHSE-S2-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/06
MI-FHSE-S2-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/07
MI-RHSE-S2I-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550f/01
MI-FHSE-S2I-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550f/02

Bases:

MI-B501 Standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550m-(cl-1) to EN 54-5: 2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
HM-RHSE	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector (MI-B501AP) Note: 1. Communication software protocol (05)	550m/01
HM-FHSE	Analogue Addressable Category A1S Fixed Temperature Heat Detector (MI-B501AP) Note: 1. Communication software protocol (05)	550m/02
HM-RHSE-AP	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector AP Protocol (MI-B501AP)	550m/01
HM-FHSE-AP	Analogue Addressable Category A1S Fixed Temperature Heat Detector AP Protocol (MI-B501AP)	550m/02

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550n-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
HM-PSE	Analogue Addressable Optical Smoke Detector (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550n/01
HM-PSE-S2	Analogue Addressable Optical Smoke Detector (MI-B501AP) Notes: 1. Communication software protocol (19) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550n/02
HM-PSE-AP	Analogue Addressable Optical Smoke Detector AP Protocol (MI-B501AP) Notes: 1. Meets the requirements of EN 54-7 at high and low sensitivity	550n/02

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550p-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
HM-RHSE-I	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector with Short Circuit	550p/01

	Isolator (MI-B501AP) Note: 1. Communication software protocol (05)	
HM-FHSE-I	Analogue Addressable Category A1S Fixed Temperature Heat Detector with Short Circuit Isolator (MI-B501AP) Note: 1. Communication software protocol (05)	550p/02
HM-RHSE-I-AP	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector with Short Circuit Isolator AP Protocol (MI-B501AP)	550p/01
HM-FHSE-I-AP	Analogue Addressable Category A1S Fixed Temperature Heat Detector with Short Circuit Isolator AP Protocol (MI-B501AP)	550p/02

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550q-(cl-1) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
HM-PSE-I	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550q/01
HM-PSE-S2-I	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (MI-B501AP) Notes: 1. Communication software protocol (19) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550q/02
HM-PSE-I-AP	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator AP Protocol (MI-B501AP) Notes: 1. Meets the requirements of EN 54-7 at high and low sensitivity	550q/02

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550r-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
HM-PTSE	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Certified at the following settings: - Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 - Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550r/01
HM-PTSE-AP	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector AP Protocol (MI-B501AP) Notes: 1. Certified at the following settings:	550r/01

· Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003

· Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550s-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
HM-PTSE-I	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector with Short Circuit Isolators (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Certified at the following settings: - Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 - Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550s/01
HM-PTSE-I-AP	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector with Short Circuit Isolators AP Protocol (MI-B501AP) Notes: 1. Certified at the following settings: · Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 · Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550s/01

Bases:

MI-B501AP Intelligent Detector Base

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Certificate No: 199aa-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
22051TLEI	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
22051TEI	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ab-(cl-2) to EN 54-7: 2018 & EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
22051EI	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
72051EI	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/02

Bases:

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ac-(cl-2) to EN 54-5:2017 + A1:2018 & EN 54-17:2005 EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
52051EI	Analogue Addressable Category A1S Fixed Temperature Heat Sensor with Short Circuit Isolator (B501AP, B524HTR and B524RTE bases)	199ac/01
52051HTEI	Analogue Addressable Category BS Fixed Temperature Heat Sensor with Short Circuit Isolator (B501AP, B524HTR and B524RTE bases)	199ac/02
52051REI	Analogue Addressable Category A1R Rate of Rise Heat Sensor with Short Circuit Isolator (B501AP, B524HTR and B524RTE bases)	199ac/03

Bases:

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ae-(cl-2) to EN 54-17:2005 & EN 54-20:2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
FL2011EI-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: · Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)	199ae/01
FL2012EI-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating	199ae/02

	Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber. 2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 4. The approval of the detector is conditional upon the following requirements: · Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	
FL2022EI-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: · Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/03

Accessories

F-INF-25 In line filter

Certificate No: 199m-(cl-2) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
2351E	Conventional photoelectric smoke detector (B401, B40DG, B401R, B401SD and B401RSD bases) Note: Meets the requirements of EN54-7 at low, medium and high sensitivity settings	199m/03
ECO1003	Conventional Photoelectric Smoke Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199m/01
Vision 2020P	Conventional photoelectric detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199m/05
22051EISE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP, B524HTR and B524RTE bases) *Note: Meets EN54-7 at High, Normal & Low sensitivity settings*	199m/07
22051E	Analogue Addressable Optical Smoke Sensor (B501AP, B524IEFT-1 and B524HTR bases) Note: Meets EN54-7 at High, Normal & Low sensitivity settings	199m/10
ECO1003ABL	Conventional Photoelectric Smoke Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD bases)	199m/11

Bases:

2020B standard base

2020DB deep base

2020BSD standard base with schottky diode

2020DBSD deep base with schottky diode

B401 standard base

B401DG deep base

B401R standard base with 470 ohm resistor

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B501 standard analogue detector base

B501AP intelligent detector base

B501DG analogue sensor deep base

B524IEFT analogue sensor isolator base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

ECO1000B standard base.

ECO1000BSD standard base with schottky diode.

ECO1000BR standard base, 470 ohm resistor.

ECO1000BRSD standard base, 470 ohm resistor and schottky diode.

ECO1000BR680 standard base, 680 ohm resistor.

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode.

ECO1000BR1000 standard base, 1000 ohm resistor.

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode.

ECO1000DB deep base

ECO1000DBR deep base with 470 ohm resistor

ECO1000DBRSD deep base with 470 ohm resistor and schottky diode

ECO2000B mounting base

ECO1000BREL12L 12Vdc Relay base (latching)

ECO1000BREL12NL 12Vdc Relay base (non-latching)

ECO1000BREL24L 24Vdc Relay base (latching)

Certificate No: 199n-(cl-2) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
ECO1005	Category A1R Conventional Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD,ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/01
ECO1005T	Category A2S Conventional Fixed Temperature Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000,	199n/06

	ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	
5351E	Category A1R conventional rate of rise heat detector (B401, B401DG, B401R, B401SD, & B401RSD bases)	199n/07
4351E	Category BS conventional heat detector (B401, B401 DG, B401R, B401SD, & B401RSD bases)	199n/08
ECO1004T	Category BS Conventional High Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 and ECO1000BR1000SD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/09
Vision 2020F	Category A2S conventional fixed temperature heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/10
Vision 2020HF	Category BS conventional fixed temperature heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/11
Vision 2020R	Category A1R conventional rate of rise heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/12
5351TE	Conventional Category A2S fixed temperature heat detector (B401, B401R, B401RSD, B401SD, B401DG bases)	199n/14
52051RE	Analogue addressable Category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/15
52051HTE	Analogue Addressable Category BS Fixed Temperature Heat Detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/16
52051E	Analogue Addressable Category A1S Fixed Temperature Heat Detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/17
ECO1004TABL	Category BS Conventional High Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	199n/18
ECO1005ABL	Category A1R Conventional Thermal Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	199n/19
ECO1005TABL	Category A2S Conventional Fixed Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	199n/20

Bases:

2020B standard base

2020DB deep base

2020BSD standard base with schottky diode

2020DBSD deep base with schottky diode

B401 standard base

B401DG deep base

B401R standard base with 470 ohm resistor

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

B501 standard analogue detector base

B501AP intelligent detector base

B501DG analogue sensor deep base

B524IEFT analogue sensor isolator base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

ECO1000B standard base.

ECO1000BSD standard base with schottky diode.

ECO1000BR standard base, 470 ohm resistor.

ECO1000BRSD standard base, 470 ohm resistor and schottky diode.

ECO1000BR680 standard base, 680 ohm resistor.

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode.

ECO1000BR1000 standard base, 1000 ohm resistor.

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode.

ECO2000B mounting base.

ECO1000DB deep base.

ECO1000DBR deep base with 470 ohm resistor

ECO1000DBRSD deep base with 470 ohm resistor and schottky diode

ECO1000BREL12L 12Vdc Relay base (latching)

ECO1000BREL12NL 12Vdc Relay base (non-latching)

ECO1000BREL24L 24Vdc Relay base (latching)

Certificate No: 199p-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
ECO1002	Conventional Photo-Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases) Note: Meets the requirements of EN 54-5 at Category A1R and EN 54-7 at pre-set sensitivity	199p/01
2351TEM	Conventional optical/thermal detector (B401, B401DG, B401R, B401SD, & B401RSD bases) Note: Meets the requirements of EN54-5 at Category A1R and EN54-7 at 'High' 'Medium' and 'Low' sensitivity settings.	199p/03
Vision 2020PT	Conventional photo thermal detector (2020B, 2020DB, 2020BSD and 2020DBSD bases)	199p/04
22051TLE	Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/06
22051TE	Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199p/07

	Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	
ECO1002ABL	Conventional Photo-Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD bases) Note : Meets the requirements of EN54:5 at Category A1R and EN54:7 at pre-set sensitivity	199p/08

Bases:

2020B standard base

2020DB deep base

2020BSD standard base with schottky diode

2020DBSD deep base with schottky diode

B401 standard base

B401DG deep base

B401R standard base with 470 ohm resistor

B401SD standard base with schottky diode

B401RSD standard base with 470 ohm resistor and schottky diode

B401R1000 standard base with 1000 ohm resistor

B401DGR deep base with 470 ohm resistor

B401DGR1000 deep base with 1000 ohm resistor

B401DGSD deep base with schottky diode

B501 standard analogue detector base

B501AP intelligent detector base

B501DG analogue sensor deep base

B524IEFT analogue sensor isolator base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

ECO1000B standard base

ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode

ECO1000BR680 standard base, 680 ohm resistor

ECO1000BR680SD standard base, 680 ohm resistor and schottky diode

ECO1000BR1000 standard base, 1000 ohm resistor

ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode

ECO1000DB deep base

ECO1000DBR deep base with 470 ohm resistor

ECO1000DBRSD deep base with 470 ohm resistor and schottky diode

ECO2000B mounting base

ECO1000BREL12L 12Vdc Relay base (latching)

ECO1000BREL12NL 12Vdc Relay base (non-latching)

ECO1000BREL24L 24Vdc Relay base (latching)

Certificate No: 199t-(cl-2) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
2251CTLE-xx-yy	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501AP, B501DG, B524IEFT-1, B524HTR and B524RTE bases) Notes: 1.) xx = (Range 0-99) ~ indicates the communication software protocol 2.) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3.) Certified at the following settings: - Normal Mode: Alarm Levels 1 to 5 (Multi-criteria) EN54-5 Category A1R, EN 54-7, LPS 1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R Nuisance Environment Applications: Application 0, Alarm Level 4 EN54-7, LPS 1279 & CEA 4021 Application 1, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 2, Alarm Level 4 or 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 3, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 4, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 5, Alarm Level 5 EN54-7 & CEA 4021 Application 6, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 7, Alarm Level 5 EN54-5 Category A1R, LPS 1279 and CEA 4021	199t/01

Bases:

B501 standard analogue detector base

B501DG analogue deep base

B501AP intelligent sensor base

B524IEFT-1 short circuit isolator

B524HTR heater base

B524RTE latching relay base

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien, 264, Taiwan ROC
Tel: +886 2 22487599

Certificate No: 506a to EN 54-7:2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
AHS-871	Conventional Photoelectric Smoke Detector (AHMB-L Mounting Base)	506a/01
AH-0311-2	(2 Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/02
AH-0311-3	(3 Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/03

AH-0311-4	(4 wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/04
Q01-2	Conventional 2-Wire Optical Smoke Detector (AHMB-061-2 and AHMB-071-2 Bases)	506a/05
Q01-3	Conventional 3-Wire Optical Smoke Detector with Remote (AHMB-061-3 and AHMB-071-3 Bases)	506a/06
Q01-4	Conventional 4-Wire Optical Smoke Detector with Relay Output (AHMB-061-4 and AHMB-071-4 Bases)	506a/07

Bases:

AHMB-031 Mounting Base

AHMB-L Mounting Base

AHMB-061-2 Standard Base

AHMB-061-3 Standard Base

AHMB-061-4 Standard Base

AHMB-071-2 Base Unit

AHMB-071-3 Base Unit

AHMB-071-4 Base Unit

Certificate No: 506b to EN 54-7:2018, EN 54-5:2017 + A1:2018 and CEA 4021:2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
Q05-2	Conventional 2-Wire Optical Smoke and Category A2 Heat Detector (AHMB-061-2 and AHMB-071-2 Bases)	506b/04
Q05-3	Conventional 3-Wire Optical Smoke and Category A2 Heat Detector with Remote LED (AHMB-061-3 and AHMB-071-3 Bases)	506b/05
Q05-4	Conventional 4-Wire Optical Smoke and Category A2 Heat Detector with Relay Output (AHMB-061-4 and AHMB-071-4 Bases)	506b/06

Bases:

AHMB-061-2 Standard Base

AHMB-061-3 Standard Base

AHMB-061-4 Standard Base

AHMB-071-2 Base Unit

AHMB-071-3 Base Unit

AHMB-071-4 Base Unit

Certificate No: 506c to EN 54-5:2017 + A1:2018

Point Heat Detector

Product Name	Description	LPCB Ref. No
Q06-2	Conventional 2-Wire Category A2 Heat Detector (AHMB-061-2 and AHMB-071-2 Bases)	506c/04
Q06-3	Conventional 3-Wire Category A2 Heat Detector with Remote LED (AHMB-061-3 and AHMB-071-3 Bases)	506c/05
Q06-4	Conventional 4-Wire Category A2 Heat Detector with Relay Output (AHMB-061-4 and AHMB-071-4 Bases)	506c/06

Bases:

AHMB-061-2 Standard Base

AHMB-061-3 Standard Base

AHMB-061-4 Standard Base

AHMB-071-2 Base Unit

AHMB-071-3 Base Unit

AHMB-071-4 Base Unit

Certificate No: 506g to EN 54-10:2002 + A1:2005

Flame Detectors

Product Name	Description	LPCB Ref. No
IR-0714-2	Infrared Single Flame Detector (AHMB-071) Note: Meets EN 54-10:2002 at Class 2 and 3 Sensitivity	506g/01
IR-0814-2	Infrared Dual Flame Detector (AHMB-071) Note: Meets EN 54-10:2002 at Class 2 and 3 Sensitivity	506g/02
EDFS1	Single IR Flame Detector Note: Meets EN 54-10:2002 at Class 1 Sensitivity	506g/03
EDFS2	Dual IR Flame Detector Note: Meets EN 54-10:2002 at Class 1 Sensitivity	506g/04

AHMB-071 Mounting Base

Certificate No: 506h to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
EDB01	Reflective Beam Smoke Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at sensitivity settings 18%, 25%, 35% and 50% 2. Suitable for use at the following separation ranges: a) 5 to 20 metres Short Path (1 x prism reflector required) b) 20 to 50 metres Short Path (1 x prism reflector required) c) 50 to 70 metres Normal Path (4 x prism reflector required) d) 70 to 100 metres Long Path (4 x prism reflector required)	506h/01

Accessories:

1 x Prism Reflector

4 x Prism Reflector

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E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928a-(cl-9) to EN 54-5: 2017 + A1: 2018 and EN 54-17: 2005

Product Name	Description	LPCB Ref. No
HFI-TA-05	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (HFI-DMBS-05 Base) Note: Meets the requirements of EN 54-5 for Category A1R and Category B	928a/02

Bases

HFI-UB-01 Universal adaptor base

HFI-DUB-01 Deep adaptor base

HFI-DMB-01 Vega adaptor base

HFI-DDB-01 Vega deep adaptor base

HFI-UBS-01 Universal adaptor base with shorting clip

HFI-DUBS-01 Deep adaptor base with shorting clip

HFI-DMBS-01 Vega adaptor base with shorting clip

HFI-DDBS-01 Vega deep adaptor base with shorting clip

WAB100 Wireless Adaptor Base

HFI-DMBS-05 Low profile adaptor base

Certificate No: 928aj-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, EN 54-31:2014+A1:2016

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
HFW-TRI-05	Wireless Addressable Multi Criteria Smoke, Heat and CO Detector. (WAB100 Base) Notes: 1. Meets the requirements of EN 54-31 and EN 54-5 depending on the specific classification setting at classes A1R and BS. 2. Meets the requirements of EN 54-31 and EN 54-7 at all classification settings. Classification Settings: L0 Harsh smoke profile; smoke profile number 0; heat classification BS. L1 Harsh smoke profile; smoke profile number 1; heat classification A1R. L2 Harsh smoke profile; smoke profile number 2; heat classification A1R. L3 Harsh smoke profile; smoke profile number 3; heat classification A1R. N0 Normal smoke profile; smoke profile number 0; heat classification A1R. N1 Normal smoke profile; smoke profile number 1; heat classification A1R. N2 Normal smoke profile; smoke profile number 2; heat classification A1R. N3 Normal smoke profile; smoke profile number 3; heat classification A1R. H0 Clean smoke profile; smoke profile number 0; heat classification A1R. H1 Clean smoke profile; smoke profile number 1; heat classification A1R. H2 Clean smoke profile; smoke profile number 2; heat classification A1R.	928aj/01

H3 Clean smoke profile; smoke profile number 3; heat classification A1R.

Base:

WAB100 Base

Certificate No: 928b-(cl-9) to EN 54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
HFI-PA-05	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (HFI-DMBS-05 Base)	928b/02
	Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	

Bases

HFI-UB-01 Universal adaptor base

HFI-DUB-01 Deep adaptor base

HFI-DMB-01 Vega adaptor base

HFI-DDB-01 Vega deep adaptor base

HFI-UBS-01 Universal adaptor base with shorting clip

HFI-DUBS-01 Deep adaptor base with shorting clip

HFI-DMBS-01 Vega adaptor base with shorting clip

HFI-DDBS-01 Vega deep adaptor base with shorting clip

HFI-DMBS-05 Low profile adaptor base

WAB 100 Wireless Adaptor Base

Certificate No: 928c-(cl-9) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-17: 2005 and CEA 4021: 2003

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
HFI-MA-05	Addressable Multi-Criteria Detector with Short-Circuit Isolator (HFI-DMBS-05 Base)	928c/02
	Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings:	

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Bases

HFI-UB-01 Universal adaptor base

HFI-DUB-01 Deep adaptor base

HFI-DMB-01 Vega adaptor base

HFI-DDB-01 Vega deep adaptor base

HFI-UBS-01 Universal adaptor base with shorting clip

HFI-DUBS-01 Deep adaptor base with shorting clip

HFI-DMBS-01 Vega adaptor base with shorting clip

HFI-DDBS-01 Vega deep adaptor base with shorting clip

HFI-DMBS-05 Low profile adaptor base

WAB 100 Wireless Adaptor Base

Certificate No: 928d-(cl-12) to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
HFI-TAE-05	Addressable Category P Heat Detector (HFI-DMBS-05 Base)	928d/03
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	

Bases

HFI-DMBS-05 Low Profile Adaptor Base

Certificate No: 928e-(cl-12) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
HFI-PAE-05	Addressable Photoelectric Smoke Detector (HFI-DMBS-05 Base)	928e/03
	Note:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Bases

HFI-DMBS-05 Low Profile Adaptor Base

Certificate No: 928f-(cl-8) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
HFI-MAE-05	Addressable Photo & Category A1R Heat Detector (HFI-DMBS-05 Base)	928f/02

Notes

1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings:

Multi criteria level 1 (most sensitive) - thermally enhanced smoke detection with Category A1 heat

Multi criteria level 2 - thermally enhanced smoke detection with Category A1 heat response

Multi criteria level 3 - thermally enhanced smoke detection with Category A1 heat response

Multi criteria level 4 (least sensitive) - thermally enhanced smoke detection with Category A1 heat

2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:

Heat detection only Category A1R

3. Meets the requirements of EN 54-7 at the following settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Bases

HFI-DMBS-05 Low Profile Adaptor Base

Certificate No: 928j-(cl-6) to EN 54-5:2017+ A1:2018, EN 54-25:2008

Product Name	Description	LPCB Ref. No
HFW-TA-05	Wireless Libra Addressable Category P Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02
RHT-E	Wireless Addressable Category P Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

WAB 100 Wireless Adaptor Base

Certificate No: 928k-(cl-6) to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
HFW-PA-05	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base) Notes: 1 Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal	928k/02

	Level 3 - Low 2 The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	
ROP-E	Wireless Addressable Optical Smoke Detector (WAB100 Base) Notes: 1 Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2 The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-6) to

Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
HFW-MA-05	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following batteries only CR123A (3 Vdc) -Primary and Secondary Battery	928m/02
RMC-E	Wireless Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following batteries only CR123A (3 Vdc) -Primary and Secondary Battery	928m/02

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-6) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
HFW-MA-05	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R	928m/02

	2. Meets the requirements of EN 54-7 in the normal sensitivity setting Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following batteries only CR123A (3 Vdc) -Primary and Secondary Battery	
RMC-E	Wireless Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following batteries only CR123A (3 Vdc) -Primary and Secondary Battery	928m/02

Bases

WAB100 Wireless Adaptor Base

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Certificate No: 1163a-(cl-3) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
IE326F	2-Wire Conventional Optical Smoke Detector with Remote LED Output (52118 Base) Note: 1. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163a/04

Bases

52118 2-Wire with Remote LED Base

Certificate No: 1163c-(cl-3) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
IE326T	2-Wire Conventional Heat Detector with Remote LED Output (52118 Base) Note: 1. Meets the requirements of EN 54-5 for the following setting: - Category A1R	1163c/08

Bases

52118 2-Wire with Remote LED Base

Certificate No: 1163p-(cl-2) to EN 54-5:2017 + A1:2018 & EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
IE326FT	2-Wire Conventional Heat and Optical Smoke Detector with Remote LED Output (52119 Base) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Category A2 2. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163p/02

Base

52119 2-Wire with Remote LED Base

Certificate No: 1163q-(cl-2) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
32204	Analogue Addressable Optical Smoke Detector (52119 Base) Note: 1. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163q/02

Base

52119 4-Term Low profile 100mm diameter base with SCI

Certificate No: 1163r-(cl-2) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
32205	Analogue Addressable Heat Detector (52119 Base) Note: 1. Meets the requirements of EN 54-5 for the following setting: - Category A2R	1163r/02

Base

52119 4-Term Low profile 100mm diameter base with SCI

Certificate No: 1163s-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
32206	Analogue Addressable Heat and Optical Smoke Detector (52119 Base) Note: 1. Meets the requirements of EN 54-5 for the following setting: - Category A2R 2. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163s/02

Base

52119 4-Term Low profile 100mm diameter base with SCI

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Certificate No: 991a to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ID300	Conventional Multi-Criteria Detector (EB0010, EB0020, EB0110 and EB0120 bases) Notes: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets EN 54-5 at Category A1R and Category B.	991a/01

Bases:

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991b to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ED300	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Notes: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets the requirements of EN 54-5 at category A1R and category B.	991b/01

Bases

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991c to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
ID100	Conventional Optical Smoke Detector (EB0010, EB0020, EB0110 and EB0120 bases) Note: Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities.	991c/01

Bases:

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991d to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
ED100	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities	991d/01

Bases

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991e to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
ID200	Conventional Category P Heat Detector (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets EN 54-5 at Category A1R and Category B	991e/01

Bases:

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991f to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
ED200	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets the requirements of EN 54-5 at category A1R & category B	991f/01

Bases

EB0010 Standard Base

EB0020 Relay Base

EB0110 Standard Base

EB0120 Relay Base

Certificate No: 991n to EN 54-20:2006, EN 54-17: 2005

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
FA100	Single (Expandable to two) Pipe Aspirating Smoke Detector with Short Circuit Isolator Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements:	991n/01

- Design, installation, and commissioning are performed in accordance with the Installation and programming manual (DCMIINE0FA100-100)

3. The FA100 detector is approved for the following classes and sensitivities:

- Class A: 0.00235-0.025 dB/m

- Class B: 0.00235-0.060 dB/m

- Class C: 0.00235-0.200 dB/m

The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using FA/STUDIO software.

4. The aspirating detector is approved with the following ancillary components:

- FAD100 - Detector module

- FAD100Filter - Metal mesh with gasket

- 504F075ABS - Dust filter (Medium F0.75 filter with RL5 cartridge ABS)

- WT025 - Condensate trap ABS

- 2510025 - 3-way ball valve PVC / EPDM

- 1725001950 - Flexible transparent spiral pipe p-PVC with carbon steel wire (External Ø: 25mm)

- AAD12025CRS - Male / Female fitting (for the dust filter) ABS

- TUBOABS0250M - Pipe

- SASO100250RS - Coupling sleeve

- SATE400250RS - T-piece

- SABE300250RS - 90° bend

- SAEY500250RS - 45° Elbow

- SACA700250RS - Pipe end cap

- SAUN800250RS - Openable joint sleeve

- STS25REDK - Hose clip

- SGLUEN0250 - Sealing glue

- SGLUEN0500 - Sealing glue

- MPE1008025M-R - Red flexible pipe for sampling capillaries

- LABEL23X10 - Sampling hole identification labels with written “ASPIRATING POINT”

- CAPKIT2510SR - Kit for the creation of a sampling capillary

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Certificate No: 1330a-(cl-11) to EN54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
SS-6688	Conventional Reflective Beam Detector	1330a/01

Notes:

1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:

- Level 1: 2.6 dB High sensitivity

- Level 2: 3.8 dB Medium sensitivity

- Level 3: 5.8 dB Low sensitivity

2. Suitable for use at the following separation ranges:

- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)

- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)

- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)

- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

Accessories

Mounting Bracket

SS-6688-R 1 x Mirror Reflector

SS-6688-R 4 x Mirror Reflector

Certificate No: 1330b-(cl-6) to EN 54-7:2018

Product Name	Description	LPCB Ref. No
SS-1788	Intelligent Smoke Detector (SS-88 Base)	1330b/01

Base

SS-88 Detector Base

Certificate No: 1330c-(cl-6) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SS-1388	Intelligent Heat Detector (SS-88 Base)	1330c/01

Note:

1. Meets the requirements of EN 54-5 for Category A1R

Base

SS-88 Detector Base

Certificate No: 1330j-(cl-5) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SS-1688	Intelligent Multi-sensor Fire Detector (SS-88 Base)	1330j/01

Notes:

Meets the requirements of EN 54-29 for Heat Category A2R

Base

SS-88

Certificate No: 117p-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-26:2015, EN 54-29:2015, EN 54-30:2015, EN 54-31:2015 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KS-MULTI-CO	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (KS-BASE-3T, KS-BSND, KS-BSNDB2-RL and KS-BASE-3T-SCI bases) Notes: 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% Modes: 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Category A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Category A1R) 89 Heat (FT) (Fixed Level 3 - Category A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Category C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Category CR) 8C Heat (FT) (Fixed Level 6 - Class CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Category A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Category A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Category C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Category CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Category CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	117p/02

Bases

KS-BASE-3T Standard Base

KS-BASE-3T-SCI Short Circuit Isolator Base

KS BASE-4T Addressable Detector Base (White)

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

KS-BSND Base Sounder

Certificate No: 164aa-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KS-MULTI-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Categories A1 & C (Heat only)	164aa/01

Bases

KS-BASE-3T Standard Base

KS-BASE-3T-SCI Short Circuit Isolator Base

KS BASE-4T Addressable Detector Base (White)

Certificate No: 164ab-(cl-1) to EN 54-5:2017+A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
KS-HEAT-SCI-D	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Note: Meets the requirements of EN 54-5 for Categories A1R, BR, CR, A1S, BS & CS	164ab/01
KS-HEAT-SCI	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Note: Meets the requirements of EN 54-5 for Categories A1R, BR, CR, A1S, BS & CS	164ab/02

Bases

KS-BASE-3T Standard Base

KS-BASE-3T-SCI Short Circuit Isolator Base

KS BASE-4T Addressable Detector Base (White)

Certificate No: 164ac-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KS-MULTI	Intelligent Analogue Addressable Multi-criteria Detector (KS-BSNDB2-RL base) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at Categories A1 & C	164ac/01

Bases

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

Certificate No: 164w-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KS-MULTI-D	Intelligent Analogue Addressable Multi-criteria Detector (KS-BSNDB2-RL base)	164w/01
	Note:	
	Certificated at the following modes:	
	Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity	
	Mode 1 Optical smoke detector at 2% and 4.5% sensitivity	
	Mode 2 Fixed temperature heat detector at Categories A1 & C	

Bases

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

Certificate No: 164y-(cl-1) to EN 54-5:2017+ A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
KS-HEAT-D	Intelligent Analogue Addressable Category P Heat Detector (KS-BSNDB2-RL base)	164y/01
	Note: Categories A1R, BR, CR, A1S, BS and CS.	
KS-HEAT	Intelligent Analogue Addressable Category P Heat Detector (KS-BSNDB2-RL base)	164y/02
	Note: Categories A1R, BR, CR, A1S, BS and CS.	

Bases

KS-BASE-3T Standard Base

KS-BASE-3T-SCI Short Circuit Isolator Base

KS BASE-4T Addressable Detector Base (White)

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

Certificate No: 164z-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KS-MULTI-SCI-D	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Enclosure) (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases)	164z/01
	Notes:	
	Certificated at the following modes:	
	Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi)	
	Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only)	
	Mode 2 - Fixed temperature heat detector at Categories A1 & C (Heat only)	

Bases

KS-BASE-3T Standard Base

KS-BASE-3T-SCI Short Circuit Isolator Base

KS BASE-4T Addressable Detector Base (White)

Certificate No: 358c-(cl-4) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
KS-OPT	Intelligent Analogue Addressable Optical Smoke Detector (White) (KS-BSNDB2-RL base) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
KS-OPT-D	Intelligent Analogue Addressable Optical Smoke Detector (White) (KS-BSNDB2-RL base) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08

Bases:

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

Certificate No: 358e-(cl-2) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
KS-OPT-SCI-D	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (KS-BSNDB2-RL base) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/01
KS-OPT-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (KS-BSNDB2-RL base) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/02

Bases

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk, IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450c-(cl-4) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
KET-SD-120	Addressable Photoelectric Smoke Detector (KET-DB-260 base)	1450c/01

Base

KET-DB-260 Standard Base

Certificate No: 1450d-(cl-4) to EN 54-5:2017+A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
KET-HD-140	Addressable Category A2R Rate of Rise and Fixed Temperature Heat Detector (KET-DB-260 Base)	1450d/01

Base

KET-DB-260 Standard Base

Certificate No: 1450j-(cl-3) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KET-SHD-160	Addressable Smoke and Heat Multi Detector (KET-DB-260) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Bases

KET-DB-260 Standard Base

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174a-(cl-7) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
KM-FC5100	Conventional Optical Smoke Detector (KM-FC5101 base) Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only	1174a/01
KM-FA6100	Digital Smoke Detector (KM-FC6101 base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Bases

KM-FC510 Base

KM-FA6101 Digital Detector Base

Certificate No: 1174b-(cl-7) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
KM-FC5110	Conventional Heat Detector (KM-FC5101 base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01
KM-FA6110	Digital Heat Detector (KM-FA6101 base) Note:	1174b/02

1. Meets the requirements of EN 54-5:2000 at class A1R and A2

Bases

KM-FC5101 Base

KM-FA6101 Digital Detector Base

Bases

KM-FC5101 Base

KM-FA6101 Digital Detector Base

Certificate No: 1174f-(cl-7) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
KM-FA6120	Digital Multi-Sense Detector (KM-FA6101 base)	1174f/01
	Notes:	
	1) Meets the requirements of EN 54-5 at Category A1R and A2	
	2) Meets the requirements of EN 54-7 at the following sensitivity settings	
	- Smoke Mode 2 and A1R	
	- Smoke Mode 2 and A2	
	- Smoke Mode 2 (Smoke only), heat disabled	

Base

KM-FA6101 Digital Detector Base

KOD ELEKTRONIK GÜVENLIK SISTEMLERI SANAYI VE TICARET LTD. STI

Perpa Ticaret Merkezi, B Blok KAT 11 No 1937, Okmeydani Sisli, Istanbul, 34384, Turkey
Tel: +902123209595
E-mail: info@codesectech.com • Website: www.codesectech.com

Certificate No: 1283a-(cl-3) to EN 54-12: 2002

Beam Detectors

Product Name	Description	LPCB Ref. No
BM100	Conventional Optical Beam Smoke Detector (Double Pass)	1283a/01
	Notes:	
	1. Meets the requirements of EN 54-12 at the following sensitivity settings only:	
	- 18% obscuration high sensitivity at between 5-20m	
	- 30% obscuration medium sensitivity at between 20-100m	
	2. Suitable for use with BM50-1 prismatic reflector over distances from 5 to 50m	
	3. Suitable for use with BM100-4 set of reflectors over distances from 50 to 100m	

Ancillaries

BM50-1 Single prism reflector

BM100-4 Set of 4 x prism reflectors

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria
Tel: +43 1 52114-44
E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 010bb to

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SA5100-700LST	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) *Certified at the following settings:* *Mode 1: High sensitivity smoke detector with high heat enhancement* *Mode 2: Standard smoke sensitivity only* *Mode 3: Medium sensitivity smoke detector with medium heat enhancement* *Mode 4: Low sensitivity smoke detector with high heat enhancement* *Mode 5: Category A1R heat detector*	010bb/01

Base

FI750/B Low profile adaptor base

SA5000-200 Addressable XPERT 8 Mounting Base

45681-210 XP95 Mounting Base

Certificate No: 010bc to

Smoke Detectors

Product Name	Description	LPCB Ref. No
SA5100-600LST	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) *Certified at the following settings:* *Mode 1: High sensitivity smoke detector with fast response time* *Mode 2: High sensitivity smoke detector with standard response time* *Mode 3: Standard smoke sensitivity with fast response time* *Mode 4: Standard smoke sensitivity with standard response time* *Mode 5: Medium-Low sensitivity smoke detector with fast response time*	010bc/01

Bases:

SA5000-200 Addressable XPERT 8 Mounting Base

45681-210 XP95 Mounting Base

Certificate No: 010bd to EN 54-5: 2017 + A1: 2018, EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
SA5100-400LST	Soteria Analogue Addressable Category P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: 1. Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases

FC600/BUniversal adaptor base

FC600/BR Universal adaptor base with resistor

FC600/BRD Universal adaptor base with resistor and Schottky diode

SA5000-200Addressable XPERT 8 Mounting Base

45681-210XP95 Mounting Base

Certificate No: 928ab-(cl-4) to EN 54-7:2018, EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
FI750/O	Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FI750/B Base)	928ab/02
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Base

FI750/B Low Profile Adaptor Base

Certificate No: 928ac-(cl-4) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17: 2005

Multi-Sensor Detectors

Product Name	Description	LPCB Ref. No
FI750/OT	Addressable Multi-Criteria Detector with Short Circuit Isolator (FI750/B Base)	928ac/02
	1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following	
	settings:	
	Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response	
	Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response	
	2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:	
	Category A1R heat only response	
	3. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Optical only level 1 - High	
	Optical only level 2	
	Optical only level 3	
	Optical only level 4 - Low	

Base

FI750/B Low Profile Adaptor Base

Certificate No: 928ad-(cl-4) to EN 54-5:2017 + A1:2018, EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
FI750/T	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (FI750/B base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928ad/02

Base
FI750/B Low Profile Adaptor Base

Certificate No: 928d-(cl-11) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FC650/TDIFF/57	Conventional Category A1R Thermal Detector (FC600/B, FC600/BR and FC600/BRD bases)	928d/02
FC650/TMAX/78	Conventional Category B Thermal Detector (FC600/B, FC600/BR and FC600/BRD bases)	928d/02

Bases

FC600/B Universal adaptor base

FC600/BR Universal adaptor base with resistor

FC600/BRD Universal adaptor base with resistor and Schottky diode

SA5000-200 Addressable XPERT 8 Mounting Base

45681-210 XP95 Mounting Base

Certificate No: 928e-(cl-11) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
FC650/O	Conventional Photo Detector (FC600/B, FC600/BR and FC600/BRD bases)	928e/02

Bases

FC600/B Universal adaptor base

FC600/BR Universal adaptor base with resistor

FC600/BRD Universal adaptor base with resistor and Schottky diode

F1750/B Low profile adaptor base

WAB100 Wireless Adaptor Base

Certificate No: 928j-(cl-10) to EN 54-5:2017 + A1:2018 EN 54-25:2008

Point Heat Detector

Product Name	Description	LPCB Ref. No
FI720/RF/T	Wireless Libra Addressable Category P Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R and BS 2. The device must be used with the following battery type only:	928j/02

CR123A (3 Vdc) - Primary and Secondary Battery

Base

FI750/B Low profile adaptor base

Certificate No: 928k-(cl-10) to EN 54-7:2018, EN 54-25:2008

Smoke Detectors

Product Name	Description	LPCB Ref. No
FI720/RF/O	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)	928k/02
	Notes:	
	1. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	2. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Bases

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-10) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FI720/RF/OT	Wireless Libra Addressable Multicriteria Detector (WAB100 Base)	928m/02
	Notes:	
	1. Meets the requirements of EN 54-5 for Category A1R	
	2. Meets the requirements of EN 54-7 at the following sensitivity settings:	
	Level 1 - High	
	Level 2 - Normal	
	Level 3 - Low	
	3. The device must be used with the following battery type only:	
	CR123A (3 Vdc) - Primary and Secondary Battery	

Bases

WAB100 Wireless Adaptor Base

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton, WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330a-(cl-12) to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
LF-X5130	Conventional Reflective Beam Detector	1330a/01
	Notes:	

1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:

- Level 1: 2.6 dB High sensitivity

- Level 2: 3.8 dB Medium sensitivity

- Level 3: 5.8 dB Low sensitivity

2. Suitable for use at the following separation ranges:

- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)

- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)

- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)

- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

Mounting Bracket

LF-X5130-R (1 x Mirror)

LF-X5130-R (4 x Mirror)

Certificate No: 1330b-(cl-7) to EN 54-7:2018

Photoelectric Smoke Detectors

Product Name	Description	LPCB Ref. No
LF-X5100	Intelligent Smoke Detector (LF-X5980 base)	1330b/01

LF-X5980 Detector Base

Certificate No: 1330c-(cl-7) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
LF-X5110	Intelligent Heat Detector (LF-X5980 Detector Base)	1330c/01
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R	

LF-X5980 Detector Base

Certificate No: 1330j-(cl-6) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
LF-X5120	Intelligent Multi-sensor Fire Detector (LF-X5980 Detector Base)	1330j/01
	Notes:	
	Meets the requirements of EN 54-29 for Heat Category A2R	

LF-X5980 Detector Base

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul, TR 34775, Turkey
Tel: +90 216 4664 505
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926a to EN 54-7:2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No

MG-9100	Intelligent analogue addressable system photoelectric smoke detector (MG-3510 base)	926a/01
MGR-2100	MaviGard Conventional Photo-Electric Smoke Detector with Relay Output (MG-3550 base) Note: 1. Meets the requirements of EN 54-7:2018 at the default sensitivity 2. The relay output is not certified to EN 54-18:2005	926a/02
ML-2110	Maxlogic Conventional System Photoelectric Smoke Detector (ML-0140, ML-0121, ML-0150)	926a/03
ML-1110	Maxlogic Intelligent Analogue Addressable System Photoelectric Smoke Detector (ML-0140, ML-0121 and ML-0150 bases)	926a/04

Bases:

MG-3510 Standard Mounting Base

MG-3550 Mavigard Detector Mounting Base

ML-0140 MaxLogic Detector Base

ML-0121 Weatherproof Surface Mounting Back Box

ML-0150 Recessed Mounting Base

Certificate No: 926b to EN 54-5:2017 + A1:2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
MG-9300	Intelligent analogue addressable system class A1R rate of rise heat detector (MG-3510 base)	926b/01
ML-2120	Maxlogic Conventional System A1S Fixed Heat Detector (ML-0140, ML-0121, ML-0150)	926b/02
ML-2130	Maxlogic Conventional System A1R Rate of Rise Heat Detector (ML-0140, ML-0121, ML-0150)	926b/03
ML-1130	Maxlogic Intelligent Analogue Addressable System A1R Rate of Rise Heat Detector (ML-0140, ML-0121, ML-0150 bases)	926b/05

Bases:

MG-3510 Standard Mounting Base

ML-0140 MaxLogic Detector Mounting Base

ML-0121 Weatherproof Surface Mounting Back Box

ML-0150 Recessed Mounting Base

Certificate No: 926c to EN 54-5:2017 + A1: 2018, EN 54-7:2018 & CEA 4021:2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
MG-9400	Intelligent Analogue Addressable System Class A1R Multisensor Detector (MG-3510 base)	926c/01
ML-1140	Maxlogic Intelligent Analogue Addressable System Class A1R Multisensor (Photoelectric Smoke + Heat) Detector (ML-0140, ML-0121 and ML-0150)	926c/02

Bases:

MG-3510 Standard Mounting Base

MG-3550 Mavigard Detector Mounting Base

ML-0140 MaxLogic Detector Mounting Base

ML-0121 Weatherproof Surface Mounting Back Box

ML-0150 Recessed Mounting Base

Certificate No: 926j to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
ML-2170	Maxlogic Conventional Beam Type Smoke Detector (incorporating ML-2171 & ML-2172) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following Optical way distance settings: · 1: 5 to 25 metres · 2: 25 to 50 metres · 3: 50 to 75 metres · 4: 75 to 100 metres	926j/01
ML-2173	Maxlogic Conventional Reflector Beam Type Smoke Detector (incorporating ML-0171 or ML-0174) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following distances: · 5 to 35 metres using one reflector panel · 35 to 50 metres using four reflector panels	926j/02

Ancillaries

ML-0171 Single Reflector Panel

ML-0174 4 x Single Reflector Panel

ML-2171 Receiver

ML-2172 Transmitter

Certificate No: 926m to EN 54-12:2015 & EN 54-17:2005

Beam Detectors

Product Name	Description	LPCB Ref. No
ML-1170.SCI	Maxlogic Intelligent Analogue Addressable Beam Type Smoke Detector with Short Circuit Isolator (incorporating ML-1171 & ML-1172) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following Optical way distance settings: - 1: 5 to 25 metres - 2: 25 to 50 metres - 3: 50 to 75 metres - 4: 75 to 100 metres	926m/01
ML-1173.SCI	Maxlogic Intelligent Analogue Addressable Reflector Beam Type Smoke Detector with Short Circuit Isolator (incorporating ML-0171 or ML-0174) Notes:	926m/02

1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration.

2. Suitable for use at the following distances:

- 5 to 35 metres using one reflector panel
- 35 to 50 metres using four reflector panels

Ancillaries

ML-0171 Single Reflector Panel

ML-0174 4 x Single Reflector Panel

ML-1171 Receiver

ML-1172 Transmitter

Certificate No: 926p to EN 54-5:2017 + A1:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
MGR-2500	MaviGard Conventional Multisensor (Photoelectric Smoke & Heat) Detector with Relay Output (MG-3550 base) Notes: 1. Meets the requirements of EN 54-5:2017 + A1:2018 at Class A1R 2. Meets the requirements of EN 54-7:2018 at the default sensitivity The relay output is not certified to EN 54-18:2005	926p/01
ML-2140	Maxlogic Conventional System Multisensor (Photoelectric Smoke & Heat) Detector (ML-0140, ML-0121, ML-0150) Notes: 1. Meets the requirement of EN 54-5:2017 + A1:2018 at Class A1R 2. Meets the requirement of EN 54-7:2018 at the default sensitivity	926p/02

Base

MG-3550 Mavigard Detector Mounting Base

ML-0140 Maxlogic Detector Base

ML-0121 Surface Mounting Back Box

ML-0150 Recessed Mounting Base

Certificate No: 926w to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
ML-1110.SCI	Maxlogic Intelligent Analogue Addressable System Photoelectric Smoke Detector with Short Circuit Isolator (ML-0121, ML-0140 and ML-150 bases)	926w/01

Bases

ML-0121 Weatherproof Surface Mounting Back Box

ML-0140 Maxlogic Detector Mounting Base

ML-0150 Recessed Mounting Base

Certificate No: 926y to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
ML-1130.SCI	Maxlogic Intelligent Analogue Addressable System A1R Rate of Rise Heat Detector with Short Circuit Isolator (ML-0121, ML-0140 and ML-150 bases)	926y/02

Bases

ML-0121 Weatherproof Surface Mounting Back Box

ML-0140 Maxlogic Detector Mounting Base

ML-0150 Recessed Mounting Base

Certificate No: 926z to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ML-1140.SCI	Maxlogic Intelligent Analogue Addressable System Class A1R Multisensor (Photoelectric Smoke + Heat) Detector with Short Circuit Isolator (ML-0121, ML-0140 and ML-150 bases)	926z/01

Bases

ML-0121 Weatherproof Surface Mounting Back Box

ML-0140 Maxlogic Detector Mounting Base

ML-0150 Recessed Mounting Base

Max Technologies Unipessoal, Lda.

Rua dos Lagos, 545, Vila Nova de Gaia, 4405875, Portugal
Tel: +351-227664530
E-mail: info@maxtechnologies.pt • Website: www.maxtechnologies.pt

Certificate No: 1330a-(cl-10) to EN 54-12: 2015

Product Name	Description	LPCB Ref. No
FBR-100R	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	1330a/01

Accessories

Mounting Bracket

FBR-100R-R 1 x Mirror Reflector

FBR-100R-R 4 x Mirror Reflector

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, 34147, Italy
Tel: +44 (0)1444 230300
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 199aa-(cl-3) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
MI-PTIR-S2I	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
MI-PTSE-S2I	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ab-(cl-3) to EN 54-7: 2018 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
MI-PSE-S2I	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
MI-LZR-S3I	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/02

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ac-(cl-3) to EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
MI-FHSE-S2I	Analogue addressable Category A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/01
MI-HTSE-S2I	Analogue addressable Category BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/02
MI-RHSE-S2I	Analogue addressable Category A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/03

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ae-(cl-1) to EN54-17: 2005 & EN54-20: 2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
MI-FL2011EI-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: · Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)	199ae/01
MI-FL2012EI-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber. 2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 4. The approval of the detector is conditional upon the following requirements: · Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/02
MI-FL2022EI-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: · Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/03

Accessories

F-INF-25 In line filter

Certificate No: 199m-(cl-3) to EN 54-7: 2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
MI-PSE-S2	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note: Meets the requirements of EN 54-7 at high and low sensitivity*	199m/10

Bases:

B501 analogue detector base

B501DG analogue deep base

B524IEFT analogue short circuit isolator base

B501AP intelligent sensor base

B524IEFT-1 short circuit isolator base

B524HTR heater base

B524RTE latching relay base

HRZ-1000BSD standard base with Schottky diode

Certificate No: 199n-(cl-3) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
MI-RHSE-S2	Analogue addressable Category A1R rate of rise heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/15
MI-HTSE-S2	Analogue addressable Category BS fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/16
MI-FHSE-S2	Analogue addressable Category A1S fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/17

Bases:

B501 standard analogue detector base

B501DG analogue deep base

B524IEFT analogue short circuit isolator base

B501AP intelligent sensor base

B524IEFT-1 short circuit isolator

B524HTR heater base

B524RTE latching relay base

HRZ-1000BSD standard base with Schottky diode

Certificate No: 199p-(cl-3) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
MI-PTSE-S2	Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/07

Bases:

B501 standard analogue detector base

B501AP intelligent detector base

B501DG analogue sensor deep base

B524IEFT analogue short circuit isolator base

B524IEFT-1 analogue sensor short circuit isolator base

B524HTR heater base

B524RTE latching relay base

HRZ-1000BSD standard base with Schottky diode

Multron Systems Pte Ltd

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Tel: +65 6743 2555 / 6395 6868
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1148a to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
DET-C632	Conventional Rate of Rise & Fixed Temperature Heat Detector (DB-6 standard base)	1148a/01
	Note:	
	Meets the requirements of EN 54-5 at Category A2R	

Bases:

DZ-03 Standard detector base

DB-6 Standard detector base

DB1 Mounting base

MX980 Base

Certificate No: 1148b to EN 54-7:2018

Photoelectric Smoke Detectors

Product Name	Description	LPCB Ref. No
DET-C631	Conventional Optical Smoke Detector	1148b/01
	(DB-6 Standard base)	
	Note:	
	Meets the requirements of EN 54-7 in the normal sensitivity setting.	

Bases:

DZ-03 Standard detector base

DB-6 Standard detector base

DB1 Mounting base

MX980 Base

Certificate No: 1330a-(cl-2) to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
DET 640RB	Conventional Reflective Beam Detector	1330a/01

Notes:

1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:

- Level 1: 2.6 dB High sensitivity
- Level 2: 3.8 dB Medium sensitivity
- Level 3: 5.8 dB Low sensitivity

2. Suitable for use at the following separation ranges:

- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)
- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)
- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)
- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

Accessories

Mounting Bracket

DET-640RB-R 1 x Mirror Reflector

DET-640RB-R 4 x Mirror Reflector

Certificate No: 1330b-(cl-3) to EN 54-7:2018

Product Name	Description	LPCB Ref. No
MX100	Intelligent Smoke Detector (MX980 base)	1330b/01

Base

MX980 Base

Certificate No: 1330c-(cl-3) to EN 54-5:2017+A1:2018

3

Product Name	Description	LPCB Ref. No
MX110	Intelligent Heat Detector (MX980 base) Note: 1 Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base

MX980 Base

Certificate No: 1330j-(cl-3) to EN 54-29:2015

Product Name	Description	LPCB Ref. No
MX120	Intelligent Multi-sensor Fire Detector (MX980 Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

Base

MX980

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Tel: +44 (0)1483 769555/8
E-mail: sales@nittan.co.uk • Website: www.nittan.co.uk

Certificate No: 041h to EN 54-5:2017 + A1:2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
EVC-H-A2S	Conventional Category A2S Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	041h/03
EVC-H-CS	Conventional Category CS Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	041h/04

Bases

UB-4 Universal base

UB-4-EV Universal base

UB-4SD Universal base with Shottky diode

UB-6-EV Universal Mounting base

STB-4SE-EV mounting base

Certificate No: 1461a-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
EVC-P	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE ,STB-4SE-EV, UB-4, UB-4-EV, UB-4SD bases, and UB-6-EV bases)	1461a/01
ST-P-OM	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE, STB-4SE-EV, UB-4 , UB-4R-470, UB-4SDR-470 and UB-6-EV bases)	1461a/02
ST-PY-AS	Analogue Addressable Photoelectric Smoke Detector (STB-4SE, UB-4 and UB-6-EV bases) Note: 1. Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings.	1461a/03
EVC-DP	Conventional Dual Optical Smoke Detector (STB-4, STB-4SD, STB-4SE, STB-4SE-24VR, UB-4SD and UB-4 bases)	1461a/05

Bases

STB-4SE-EV Standard deep mounting base

STB-4SE Standard deep mounting base

STB-4SE-24VR Relay mounting base

UB-4 Universal mounting base

UB-4-EV Universal mounting base

UB-4SD Mounting base with schottky diode

UB-6-EV Universal mounting base

Certificate No: 1461c-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
EVC-H-A2S	Conventional Category A2S Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	1461c/01
EVC-H-CS	Conventional Category CS Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	1461c/02

Bases

UB-4 Universal mounting base

UB-4-EV Universal mounting base

UB-4SD Mounting base with schottky diode

UB-6-EV Universal mounting base

STB-4SE-EV Standard deep mounting base

Certificate No: 755a-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
EVC-DP	Conventional Dual Optical Smoke Detector (STB-4, STB-4SD, STB-4SE, STB-4SE-24VR, UB-4 and UB-5 bases)	755a/01

Bases:

STB-4 Standard Mounting Base

STB-4SD Standard Deep Mounting Base

STB-4SE Schottky Diode Mounting Base

STB-4SE-24VR Relay Mounting Base

UB-4 Universal Mounting Base 4 Terminal

UB-5 Universal Mounting Base 5 Terminal

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E-mail: sales@nordencommunication.com • Website: www.nordencommunication.com

Certificate No: 1330b-(cl-11) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
NFA-T01SD	Intelligent Addressable Optical Smoke Detector (NFA-T01NB base)	1330b/01

Base

3 Detector Base

Certificate No: 1330c-(cl-11) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
NFA-T01HD	Intelligent Addressable Heat Detector (NFA-T01NB Detector Base) Note:	1330c/01

1. Meets the requirements of EN 54-5 for Category A1R

Base
NFA-T01NB Detector Base

Certificate No: 1330j-(cl-10) to EN 54-29: 2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
NFA-T01MD	Intelligent Addressable Multi-sensor Detector (NFA-T01NB Detector Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

Base
NFA-T01NB Detector Base

Notifier by Honeywell, Pittway Tecnologica Srl

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Tel: +44 (0)1444 230300
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 199aa-(cl-4) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
NFXI-SMT3	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
NFXI-SMT2	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ab-(cl-4) to EN 54-7: 2018 & EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
NFXI-OPT	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
NFXI-VIEW	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/03

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199ac-(cl-4) to EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Heat Detectors

Product Name	Description	LPCB Ref. No
NFXI-TFIX58	Analogue addressable Category A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/01
NFXI-TFIX78	Analogue addressable Category BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/02
NFXI-TDIFF	Analogue addressable Category A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/03

Bases:

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199af-(cl-1) to EN54-17: 2005 & EN54-20: 2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
NFXI-ASD11-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199af/01
NFXI-ASD12-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199af/02
NFXI-ASD22-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter)	199af/03

Notes:

1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.

2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.

3. The approval of the detector is conditional upon the following requirements:

- Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).

F-INF-25 In line filter

Certificate No: 199m-(cl-4) to EN 54-7: 2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
SD-851E	Conventional photoelectric smoke detector (B401 base)	199m/03
IDX-751 AE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP bases) Note: Meets EN54-7 at High, Normal & Low sensitivity settings	199m/07
NFX-OPT	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Meets the requirements of EN 54-7 at high and low sensitivity*	199m/10

Bases:

B501 base

B401 base

B501DG deep base

B5241EFT short circuit isolator base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

B501AP Intelligent detector base

Certificate No: 199n-(cl-4) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
FD-851RE	Conventional Category A1R rate of rise heat detector (B401 base)	199n/07
FD-851HTE	Conventional Category BS heat detector (B401 base)	199n/08
FD-851TE	Conventional Category A2S Fixed Temperature Heat Detector (B401, B401R, B401SD, B401RSD, B401DG, B401DGR, B401DGSD and B401DGRSD bases)	199n/14
NFX-TDIFF	Analogue addressable Category A1R rate of rise heat sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)	199n/15
NFX-TFIX78	Analogue addressable Category BS fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)	199n/16
NFX-TFIX58	Analogue addressable Category A1S fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)	199n/17

Bases:

B501 base

B401 base

B401R standard base with resistor

B401RSD standard base with resistor and schottky diode

B401SD standard base with schottky diode

B401DG deep base

B501AP intelligent sensor base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199p-(cl-4) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
SD-851TE	Conventional photoelectric/thermal detector (B401 base) Note: Meets the requirements of EN54-7 at "High", 'Medium' and 'Low' sensitivity settings	199p/03
NFX-SMT3	Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 Category A1R*	199p/06
NFX-SMT2	Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003* Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/07

Bases:

B501 base

B401 base

B501DG deep base

B524IEFT-1 analogue short circuit isolator base

B501AP intelligent sensor base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199t-(cl-3) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
IRX-751CTEM	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501DG and B524IEFT-1 bases) *Note: Certified at the following settings: -* *Normal Mode:* Alarm Levels 1 to 5 (Multi-criteria): EN54-5 Category A1R, EN54-7, LPS 1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R	199t/01

Nuisance Environment Applications:

Application 0, Alarm Level 4 EN54-7, LPS 1279 & CEA 4021

Application 1, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021

Application 2, Alarm Level 4 or 5 EN54-5 Category A1R, EN54-7 & CEA 4021

Application 3, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021

Application 4, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021

Application 5, Alarm Level 5 EN54-7 & CEA 4021

Application 6, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021

Bases:

B501 standard analogue detector base

B501DG analogue deep base

B524IEFT-1 short circuit isolator

Notifier Fire Systems India

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Certificate No: 550a to
Certificate No: 550d to

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
NFX-OPT-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Meets the requirements of EN 54-7 at high and low sensitivity*	550a/04
NFXI-OPT-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550d/01

Bases:

B501 standard analogue detector base

B501DG deep analogue detector base

B5241EFT-1 analogue short circuit isolator base

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550b to
Certificate No: 550e to

Multi-criteria Detectors

Product Name	Description	LPCB Ref. No
NFX-SMT2-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1,	550b/05

	B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	
NFXI-SMT2-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White* *2) Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 category A1R*	550e/02

Bases:

B501 Standard base

B501DG Deep analogue detector base

B5242EFT-1 Short circuit islolator base

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550c to
Certificate No: 550f to

Point Heat Detectors

Product Name	Description	LPCB Ref. No
NFX-TDIFF-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550c/06
NFX-TFIX58-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
NFXI-TDIFF-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550f/01
NFXI-TFIX58-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* *1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White*	550f/02

Bases:

B501 Standard base

B501DG Deep analogue detector base

B542IEFT-1 Short circuit islolator base

B501AP intelligent detector base

B524HTR heater base

B524RTE latching relay base

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar, Uttar Pradesh, 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450c-(cl-2) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
NF5161	Addressable Photoelectric Smoke Detector	1450c/01

Base

NFDZ5000 Standard Base

Certificate No: 1450d-(cl-2) to EN 54-5:2017 + A1: 2018

Product Name	Description	LPCB Ref. No
NF5162	Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector	1450d/01

Base

NFDZ5000 Standard Base

Certificate No: 1450j-(cl-2) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
NF5163	Addressable Smoke and Heat Multi Detector (NFDZ5000 Base) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Base

NFDZ5000 Base

Oscar Fire, Safety & Security Ltd

22 Sacriston Close, Billingham, Cleveland, Durham, TS23 2TE, United Kingdom
Tel: +44 1642 560218
E-mail: kevin@oscarfire.uk

Certificate No: 1426b-(cl-8) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SDS-9020A	Addressable Heat Detector (Base SDS12) Notes: Meets the requirements of EN 54-5 for Category A2	1426b/01
SDS-9020C	Conventional Rate of Rise and Fixed Temperature Heat Detector (Base SDS12K)	1426b/02

Notes:

Meets the requirements of EN 54-5 for Category A2R and A2S

Bases:
SDS12
SDS12K

Certificate No: 1426c-(cl-8) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SDS-9030A	Addressable Smoke Detector (SDS12 Base)	1426c/01
	Note:	
	Meets the requirements of EN 54-7 for 1 sensitivity setting	
SDS-9030C	Conventional Optical Smoke Detector (SDS12K Base)	1426c/02
	Note:	
	Meets the requirements of EN 54-7 for 1 sensitivity setting	

Bases:
SDS12
SDS12K

Certificate No: 1426k-(cl-6) to EN 54-7:2018, EN 54-5:2017 + A1:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SDS-9036A	Analogue Addressable Optical/Heat Multi-sensor Detector (Base SDS12)	1426k/01
	Notes:	
	1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2.	
	2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S	
	3. Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1	

Base:
SDS12

POLON-ALFA S.A.

ul. Glinki 155, Bydgoszcz, 85 861, Poland
Tel: +48523639269 / +48691999933
E-mail: tomasz.piaskowski@polon-alfa.pl

Certificate No: 1283a to EN 54-12: 2002

Beam Detectors

Product Name	Description	LPCB Ref. No
DOP-6001R	Conventional Optical Beam Smoke Detector (Double Pass)	1283a/01
	Notes:	
	1. Meets the requirements of EN 54-12 at the following sensitivity settings only:	
	· 18% obscuration high sensitivity at between 5-20m	
	· 30% obscuration medium sensitivity at between 20-100m	
	2. Suitable for use with E39-R8 prismatic reflector over distances from 5 to 50m	
	3. Suitable for use with 4 x E39-R8 set of reflectors over distances from 50 to100m	

Ancillaries

E39-R8 Single prism reflector

4 x E39-R8 Set of 4 x prism reflectors

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya, 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426b-(cl-4) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SHD 638	Addressable Heat Detector (Base DZ-912)	1426b/01
	Notes:	
	Meets the requirements of EN 54-5 for Category A2	

Base

DZ-912

Certificate No: 1426c-(cl-4) to EN 54-7 : 2018

Product Name	Description	LPCB Ref. No
SSD 537	Addressable Smoke detector (DZ-912 Base)	1426c/01
	Notes:	
	Meets the requirements of EN 54-7 for 1 sensitivity setting	

Rapidsense Safety Technology Private Limited

B Hub, 2nd Floor, Plot No. 36/B, TSIIC, Balanagar, Hyderabad, Telangana, 500037, India
Tel: 04042624079

Certificate No: 1395a-(cl-2) to EN 54-7:2018

Product Name	Description	LPCB Ref. No
RS-CSD101	Conventional Photo-electronic Smoke Detector (RS-B-01)	1395a/01
	Notes:	
	Meets the requirements of EN 54-7 for 1 sensitivity setting	

Base

RS-B-01

Certificate No: 1395b-(cl-2) to EN 54-5:2017 + A1:2018

Product Name	Description	LPCB Ref. No
RS-CHD102	Conventional Rate of Rise Heat Detector (RS-B-01)	1395b/01
	Notes:	
	Meets the requirements of EN 54-5 for Category A2R	

Base

RS-B-01

Ravel Electronics Pvt Ltd.

150A, 1st Main Road, Electronics Industrial Estate, Perungudi, Chennai, 600 096, India
Tel: 044424961004
E-mail: rajasekaran@ravelfire.com • Website: http://ravelfire.com/

Certificate No: 1283a-(cl-5) to EN 54-12:2002

Beam Detectors

Product Name	Description	LPCB Ref. No
RE-428FR/HR	Conventional Optical Beam Smoke Detector (Double Pass) Notes: 1. Meets the requirements of EN 54-12 at the following sensitivity settings only: - 18% obscuration high sensitivity at between 5-20m - 30% obscuration medium sensitivity at between 20-100m 2. Suitable for use with RE-96R prismatic reflector over distances from 5 to 50m 3. Suitable for use with 4 x RE-96R set of reflectors over distances from 50 to 100m	1283a/01

Ancillaries:

RE-96R Single prism reflector

4 x RE-96R Set of 4 x prism reflectors

Safe Detection

33 Jurong West Street, 41#11-41, Jurong, 649413, Singapore
Tel: 98797913
E-mail: sales@safedtec.com

Certificate No: 1148a-(cl-2) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
HD10	Conventional Rate of Rise & Fixed Temperature Heat Detector (DB-6 Standard Base) Note: Meets the requirements of EN 54-5 at Category A2R	1148a/01

Certificate No: 1148b-(cl-2) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SD10	Conventional Optical Smoke Detector (DB-6 Standard Base) Note: Meets the requirements of EN 54-7 in the normal sensitivity setting	1148b/01

Safetek Fire Fighting & Safety Equipment Trading L.L.C.

Dubai Investment Park 1, Dubai, 133358, United Arab Emirates
Tel: +971 0554149550
E-mail: firesafetek@gmail.com

Certificate No: 1330a-(cl-14) to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
SK7130	Conventional Reflective Beam Detector	1330a/01
	Notes:	
	1. Meets the requirements of EN 54-12 at the following sensitivity settings:	
	- Level 1: 2.6 dB High sensitivity	
	- Level 2: 3.8 dB Medium sensitivity	
	- Level 3: 5.8 dB Low sensitivity	
	2. Suitable for use at the following separation ranges:	
	- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)	
	- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)	
	- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)	
	- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	

Accessories
Mounting Bracket
SK7130-R 1 x Mirror Reflector
SK7130-R 4 x Mirror Reflector

Certificate No: 1330b-(cl-9) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SK7100	Intelligent Smoke Detector (SK7980 base)	1330b/01

Base
SK7980 Detector Base

Certificate No: 1330c-(cl-9) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SK7110	Intelligent Heat Detector (SK7980 Detector Base)	1330c/01
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R	

Base
SK7980 Detector Base

Certificate No: 1330j-(cl-8) to EN 54-29: 2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SK7120	Intelligent Multi-sensor Fire Detector (SK7980 Detector Base)	1330j/01
	Notes:	
	Meets the requirements of EN 54-29 for Heat Category A2R	

Base
SK7980 Detector Base

Schneider Electric Buildings AB

Mobilvägen 8, Lund, 223 62, Sweden
Tel: +46104782000
E-mail: info.se@se.com • Website: www.se.com/buildings

Certificate No: 010bb-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
EDE223-I	ESMI Essentia Smoke/Heat Detector with Multi-Criteria Detector (EBE200-N base)	010bb/01
	Certified at the following settings:	
	Mode 1: High sensitivity smoke detector with high heat enhancement	
	Mode 2: Standard smoke sensitivity only	
	Mode 3: Medium sensitivity smoke detector with medium heat enhancement	
	Mode 4: Low sensitivity smoke detector with high heat enhancement	
	Mode 5: Category A1R heat detector	

Bases

EBE200-N ESMI Essentia Xpert 8 Mounting Base

Certificate No: 010bc-(cl-2) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
EDE222-I	ESMI Essentia Optical Smoke Detector (EBE200-N base)	010bc/01
	Certified at the following settings:	
	Mode 1: High sensitivity smoke detector with fast response time	
	Mode 2: High sensitivity smoke detector with standard response time	
	Mode 3: Standard smoke sensitivity with fast response time	
	Mode 4: Standard smoke sensitivity with standard response time	
	Mode 5: Medium-Low sensitivity smoke detector with fast response time	

Bases

EBE200-N ESMI Essentia Xpert 8 Mounting Base

Certificate No: 010bd-(cl-2) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
EDE221-I	ESMI Essentia Heat Detector (EBE200-N base)	010bd/01
	Note:	
	1. Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	

Bases

EBE200-N ESMI Essentia Xpert 8 Mounting Base

Certificate No: 010h to

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
EDI-30	ESMI Intellia Multisensor Smoke Detector (EBI-10 and EBI-12 bases) Note: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

Bases

EBI-10 ESMI Intellia Mounting Base

EBI-12 ESMI Intellia Mounting Base

Certificate No: 010p to

Heat Detectors

Product Name	Description	LPCB Ref. No
EDI-50	ESMI Intellia Heat Detector (EBI-10 and EBI-12 bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: Category A1R in mode 1 and in conventional mode Category A2 in mode 2 and in conventional mode Category A2S in mode 3 and in conventional mode Category CR in mode 4 and in conventional mode Category CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/03

Bases

EBI-10 ESMI Intellia Mounting Base

EBI-12 ESMI Intellia Mounting Base

Certificate No: 010q to

Smoke Detectors

Product Name	Description	LPCB Ref. No
EDI-20	ESMI Intellia Optical Smoke Detector (EBI-10 and EBI-12 bases)	010q/03

Notes:

1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode.

2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.

Bases

EBI-10 ESMI Intellia Mounting Base

EBI-12 ESMI Intellia Mounting Base

Certificate No: 010r to

Heat Detectors

Product Name	Description	LPCB Ref. No
EDC-50/A2S	ESMI Conventional Category A2S Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note: 1. Meets the requirements of EN 54-5 at Category A2S	010r/02
EDC-50/A1S	ESMI Conventional Category A1S Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note: 1. Meets the requirements of EN 54-5 at Category A1S	010r/07

Bases

EBC-10 ESMI Conventia TimeSaver Base

EBC-11 ESMI Conventia TimeSaver Deep Base

EBC-20 ESMI Conventia Relay Base

Certificate No: 010s to

Smoke Detectors

Product Name	Description	LPCB Ref. No
EDC-20	ESMI Conventia Optical Smoke Detector (Approved for use with EBC-10, EBC-20 & EBC-11 bases)	010s/01

Bases

EBC-10 ESMI Conventia TimeSaver Base

EBC-11 ESMI Conventia TimeSaver Deep Base

EBC-20 ESMI Conventia Relay Base

Certificate No: 010t to

Smoke Detectors

Product Name	Description	LPCB Ref. No
EDC-30	ESMI Conventia Multisensor Smoke Detector (EBC-10, EBC-11 & EBC-20 bases)	010t/01

Bases

EBC-10 ESMI Conventia TimeSaver Base

EBC-11 ESMI Conventia TimeSaver Deep Base

EBC-20 ESMI Conventia Relay Base

Certificate No: 199m-(cl-5) to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
ED2351E	Conventional photoelectric detector (B401, B401DG, B401R, B401SD and B401RSD bases) *Note:* 1. Meets EN 54-7 at High, Medium & Low Sensitivity Settings	199m/03

Bases:

B401 standard base B401DG deep base B401R standard base with 470 ohm resistor B401SD standard base with schottky diode B401RSD standard base with 470 ohm resistor and schottky diode

B501 Analogue sensor base

B501DG Analogue sensor deep base

B524IEFT Analogue sensor isolator base

B524HTR Heater base

B524RTE Latching relay base

Certificate No: 199n-(cl-5) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
ED5351E	Category A1R conventional rate of rise heat detector (B401, B401DG, B401R and B401RSD bases)	199n/07
ED4351E	Category BS conventional heat detector (B401, B401DG, B401R, B401SD and B401RSD bases)	199n/08
ED5351TE	Category A2S conventional fixed temperature heat detector (B401, B401R, B401RSD, B401SD and B401DG bases)	199n/14

Bases:

B401 standard base B401DG deep base B401R standard base with 470 ohm resistor B401SD standard base with schottky diode B401RSD standard base with 470 ohm resistor and schottky diode

B501 analogue sensor base

B501AP intelligent detector base

B501DG analogue sensor deep base

B524IEFT analogue sensor isolator base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 199p-(cl-5) to EN54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi Criteria Detectors

Product Name	Description	LPCB Ref. No
ED2351TEM	Conventional optical/thermal smoke & heat detector	199p/03
	(B401, B401DG, B401R, B401SD and B401RSD bases)	
	Note:	
	1. Meets the requirements of EN 54-5 at Category A1R and EN 54-7 at High, Medium and Low.	

Bases:

B401 standard base B401DG deep base B401R standard base with 470 ohm resistor B401SD standard base with schottky diode B401RSD standard base with 470 ohm resistor and schottky diode

B501 standard analogue detector base

B501AP intelligent detector base

B501DG Deep detector base

B524IEFT Short circuit isolator base

B524HTR Heater base

B524RTE Latching relay base

Certificate No: 199t-(cl-4) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
ESMI2251CTLE	Analogue addressable multi-criteria fire detector and incorporating CO, photoelectric, thermal and IR sensors (B501, B501AP, B501DG and B524IEFT-1 bases)	199t/01
	Note: Certified at the following settings: -	
	Normal Mode:	
	Alarm Levels 1 to 5 (Multi-criteria) EN54-5 Category A1R, EN54-7, LPS 1279 and CEA 4021	
	Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R	
	Nuisance Environment Applications:	
	Application 0, Alarm Level 4 EN54-7, LPS 1279 & CEA 4021	
	Application 1, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021	
	Application 2, Alarm Level 4 or 5 EN54-5 Category A1R, EN54-7 & CEA 4021	
	Application 3, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021	
	Application 4, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021	
	Application 5, Alarm Level 5 EN54-7 & CEA 4021	
	Application 6, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021	

Bases:

B401 standard base B401DG deep base B401R standard base with 470 ohm resistor B401SD standard base with schottky diode B401RSD standard base with 470 ohm resistor and schottky diode

B501 standard analogue detector base

B501AP intelligent detector base

B501DG Deep detector base

B524IEFT Short circuit isolator base

B524HTR Heater base

B524RTE Latching relay base

Shenzhen Heiman Technology Co Ltd

No 84 Fuqian Road, Yuexingwei Community, Guanlan, Longhua New District, Shenzhen, 518110, China
Tel: +86 75584193930 x8018
E-mail: office@heiman.com.cn

Certificate No: 1138a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Product Name	Description	LPCB Ref. No
HM-612PC-4	Conventional 4-WIRE photoelectric smoke detector with relay output (B-01 base)	1138a/01
HM-612PC-2	Conventional 2-WIRE photoelectric smoke detector with remote LED (B-01 base)	1138a/02
HM-613PC-4	Conventional 4-WIRE photoelectric smoke detector with relay output (B-01 base)	1138a/03
HM-613PC-2	Conventional 2-WIRE photoelectric smoke detector with remote LED (B-01 base)	1138a/04

Base

B-01 Standard base

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong, 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426b-(cl-2) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
A9020T	Addressable Heat Detector (DZ-912 Base) Meets the requirements of EN 54-5 for Category A2	1426b/01
C9020T	Conventional Rate of Rise and Fixed Temperature Heat Detector (Base DZ-912K) Meets the requirements of EN 54-5 for Category A2R and A2S	1426b/02

Bases:
DZ-912
DZ-912K

Certificate No: 1426c-(cl-2) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
C9030T	Conventional Optical Smoke Detector (DZ-912K Base) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1426c/02
A9030T	Addressable Smoke Detector (DZ-912 Base) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1426c/01

Bases:
DZ-912
DZ-912K

Certificate No: 1426k-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7:2018

Product Name	Description	LPCB Ref. No
A9036T	Analogue Addressable Optical/Heat Multi-sensor Detector (Base DZ-912)	1426k/01
	Notes:	
	1. Meets the requirements of EN 54-7: using modes 1& 2at sensitivity level 1 and EN 54-5 using Modes1 & 2 for Category A2R and A2	
	2. Meets the requirements of EN 54-5: using Modes 3 & 4 for Category A2R, and A2S	
	3. Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1	

Base

DZ-912

SHIELD FIRE, SAFETY & SECURITY LTD

Unit 3, Endeavour Drive, Basildon, SS14 3WF, United Kingdom
Tel: +44 1708 377 731
E-mail: info@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010bb-(cl-3) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
TEN-A8013	Multisensor Detector with Isolator (TEN-A8030 base)	010bb/01
	Certified at the following settings:	
	Mode 1: High sensitivity smoke detector with high heat enhancement	
	Mode 2: Standard smoke sensitivity only	
	Mode 3: Medium sensitivity smoke detector with medium heat enhancement	

Bases:

TEN-A8030 Standard Mounting Base

Certificate No: 010bc-(cl-3) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
TEN-A8011	Photo-Electric Smoke Detector with Isolator (TEN-A8030 base)	010bc/01
	Certified at the following settings:	
	Mode 1: High sensitivity smoke detector with fast response time	
	Mode 2: High sensitivity smoke detector with standard response time	
	Mode 3: Standard smoke sensitivity with fast response time	
	Mode 4: Standard smoke sensitivity with standard response time	
	Mode 5: Medium-Low sensitivity smoke detector with fast response time	

Bases:

TEN-A8030 Standard Mounting Base

Certificate No: 010bd-(cl-3) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
TEN-A8012	Heat Detector with Isolator (TEN-A8030 base)	010bd/01
	Note:	
	1. Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	

Bases:

TEN-A8030 Standard Mounting Base

Certificate No: 010h-(cl-3) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SIL-A8023	SIL Multisensor Detector (SEN-A4001 mounting base)	010h/01
	Notes:	
	1. Certified at the following settings:	
	Mode 1 High sensitivity smoke detector with standard heat enhancement	
	Mode 2 Smoke detection only	
	Mode 3 Medium sensitivity smoke detector with standard heat enhancement	
	Mode 4 Low sensitivity smoke detector with high heat enhancement	
	Mode 5 Class A1 heat detector	
	Also approved in conventional alarm modes 1, 2, 3, 4 and 5	
	2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	

Bases:

SEN-A4001 Addressable mounting base

Certificate No: 010m-(cl-2) to EN 54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SEN-A4015	Analogue Addressable Multisensor Detector	010m/01
	(SEN-A4001 mounting base)	
	Certified with digital communication protocol that has been configured for the multisensor detector in accordance with manufacturers instructions.	

Bases:

SEN-A4001 Addressable mounting base

TEN-A8030 Standard Mounting Base

Certificate No: 010p-(cl-5) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SEN-A4013	Analogue Addressable Category A2S Heat Detector (SEN-A4001 mounting base)	010p/20
	Note: Meets the requirements of Category A2S	
SIL-A8022	SIL Heat Detector (SEN-A4001 mounting base)	010p/03

Notes:

1. Meets the requirements of EN54: Part 5 at the following modes:

· Category A1R in mode 1 and in conventional mode

· Category A2 in mode 2 and in conventional mode

· Category A2S in mode 3 and in conventional mode

· Category CR in mode 4 and in conventional mode

· Category CS in mode 5 and in conventional mode

2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.

Bases:

SEN-C2001 Conventional mounting base

SEN-A4001 Addressable mounting base

TEN-A8030 Standard Mounting Base

SIL-A8058 Intrinsically Safe Mounting Base

Certificate No: 010q-(cl-5) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SEN-A4011	Analogue Addressable Optical Smoke Detector (SEN-A4001 mounting base) Certified with Communication protocol in accordance with manufacturers instructions.	010q/18
SIL-A8021	SIL Optical Detector (SEN-A4001 mounting base) Notes: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. 2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03

Bases:

SEN-C2001 Conventional mounting base

SEN-A4001 Addressable mounting base

TEN-A8030 Standard Mounting Base

Certificate No: 1204b-(cl-1) to EN 54-10: 2002 + A1: 2005

Flame Detectors

Product Name	Description	LPCB Ref. No
SEN-C2030	S65 Conventional UV Flame Detector (with base SEN-C2001) Note: Meets EN 54-10:2002 at Class 1 and Class 3	1204b/04

SEN-C2001 Standard base

Siemens Switzerland Ltd

Theilerstrasse 1a, Zug, CH-6300 , Switzerland
Website: www.siemens.com

Certificate No: 126bb to EN 54-10:2002 + A1:2005

Flame Detectors

Product Name	Description	LPCB Ref. No
DF1101-Ex	Conventional I.S. Infra-Red Flame Detector (DFB1190 Base)	126bb/01
	Note:	
	Certified to EN54-10:2002 + A1:2005 at Class 1 and 2	

Base:

DFB1190 Base

FDFB291 Base

Certificate No: 126bc to EN 54-10:2002 + A1:2005, EN 54-17:2005

Flame Detectors

Product Name	Description	LPCB Ref. No
FDF241-9	Analogue Addressable Infra-Red Flame Detector with Short Circuit Isolator (FDFB291 base)	126bc/05
	Note:	
	Certified to EN54-10: 2002 + A1: 2005 at Class 1 and 2	

Base

FDFB291 Base

Certificate No: 126bd to EN 54-12:2015, EN 54-17:2005

Beam Detectors

Product Name	Description	LPCB Ref. No
FDL241-9	Analogue Addressable Beam Detector with Short Circuit Isolator (FDLB291 base)	126bd/02
	Note:	
	Certified at sensitivity settings 30%, 50% and 65%	

Bases:

FDLB291 Base

Certificate No: 126bf to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
FDO221	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator	126bf/01
	(FDB221, FDB222, FDB291, FDB293, FDB295 bases)	
FDO241	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator	126bf/02
	(FDB221, FDB222, FDB291, FDB293, FDB295 bases)	

Bases:

FDB221 Base with stand offs

FDB201 Base "Collective"

FDB291 Base attachment surface

FDB292 Base attachment surface wet

DB720 Detector base

DB721 Detector base with loop contact

DB722 Detector Base

BA720 Base Adaptor

BA721 Base Adaptor

FDB222 Base without stand offs

FDB293 Base attachment surface wet

FDB295 Base attachment wet

Certificate No: 126bj to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
FDT221	Analogue Addressable Rate of Rise Heat Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB292 and FDB293 bases) Note: Meets EN 54-5:2017 + A1:2018 at Class A1R and BR	126bj/01
FDT241	Analogue Addressable Rate of Rise Heat Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB293 and FDB295 bases) Note: Meets EN 54-5:2017 + A1:2018 at Class A1R, A1S, BR and BS	126bj/02

Bases:

FDB221 Addressable Detector Base

FDB222 Addressable Flat Detector Base

FDB291 Base Attachment for Surface Mount Cable Entry

FDB292 Base Attachment Surface Wet

FDB293 Base Adaptor Humid

FDB295 Base Adaptor Wet

DB720 Detector Base

DB721 Detector Base with Loop Contact

DB722 Detector Base

BA720 Base Adaptor

BA721 Base Adaptor

Certificate No: 126bv to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FDOOT241-A5	Analogue Addressable Multisensor Detector with Short Circuit Isolator (DB1151A, FDB251, FDB295, FDB221, FDB222, FDB291 and FDB293 Bases) Notes: 1. The following modes are approved when used with Sinteso FDnet protocol: EN 54-29 and EN 54-7 Settings: Mode 0 - Neural Fire Detector Parameter No Robust 2	126bv/01

Balanced 4

Suppression 5

Fast Response 6

High Compensation 7

High Sensitive Fast 9

Super Sensitive 11

EN 54-5 Settings:

Mode 1 - Heat Detector

Parameter No

A1R 1

BR 2

A1S 3

BS 4

EN 54-7 Settings:

Mode 2 - Smoke Detector

Parameter No

Universal 1

Robust 2

Sensitive 3

Super Sensitive 5

2. The following modes are approved when used with the AlgoRex Interactive protocol:

EN 54-29 and EN 54-7 Settings:

Mode 0 - Neural Fire Detector

Parameter No

Balanced 4

Suppression 5

Fast Response 6

High Sensitive Fast 9

Super Sensitive 11

EN 54-5 Settings:

Mode 1 - Heat Detector

Parameter No

A1R 1

BR 2

A1S 3

BS 4

EN 54-7 Settings:

Mode 2 - Smoke Detector

Parameter No

Universal 1

Sensitive 3

Super Sensitive 5

3. Refer to manufacturers documentation A6V10323158 when making changes to interactive protocol and replacing the following detectors.

DOT1151A, DOT1152A replaced by FDOOT241-A5

EN 54-29 and EN 54-7 Settings:

Mode 0 - Neural Fire Detector - Multisensor Detector

Parameter No legacy setting

Balanced 4 APS005S, APS006S, APS015S, APS019S, APS009S, APS082S

Suppression 5 APS084S

Fast Response 6 APS007S, APS085S

High Sensitive Fast 9 APS081S

Super Sensitive 11 APS080S

DT1152A replaced by FDOOT241-A5

EN 54-5 Settings:

Mode 1 - Heat Detector

Parameter No legacy setting

A1R 1 APS100T

BR 2 APS105T

A1S 3 APS103T

BS 4 APS107T

Smoke detector DO1151A, DO1152A replaced by FDOOT241-A5

EN 54-7 Settings:

Mode 2 - Smoke detector

Parameter No legacy setting

Universal 1 APS005S

Sensitive 3 APS006S

Super Sensitive 5 APS007S, APS009S

Smoke detector DO1153A replaced by FDOOT241-A5

EN 54-7 Settings:

Mode 2 - Smoke detector

Parameter No legacy setting

Super Sensitive 5 APS073SH

FDOOT241-A3	Analogue Addressable Multisensor Detector with Short Circuit Isolator	126bv/02

(FDB221, FDB222, DB1131A, FDB291, FDB293, FDB295 and FDB241 bases)

Note - the following modes are approved

1 - Parameter sets for detection when connected to FDnet communication

Protocol

EN 54-29 and EN 54-7 Settings:

Mode 0 - "Neural Fire Detector-Multisensor Detector":

Parameter No

Robust 2

Balanced 4

Suppression 5

Fast Response 6

High Compensation 7

High Sensitive Fast 9

Super Sensitive 11

EN 54-5 Settings:

Mode 1 - "Heat Detector"

Parameter No

A1R 1

BR 2

A1S 3

BS 4

EN 54-7 Settings:

Mode 2 - "Smoke Detector"

Parameter No

Universal 1

Robust 2

Sensitive 3

Super Sensitive 5

2 - Parameter sets for detection when connected to AnalogPLUS

communication protocol

Smoke only as DO1131A

Parameter No

Sensitive 3

Universal Fast 4

Smoke with heat enhancement as DOT1131A

Parameter No

Fast Response 6

Universal Fast 12

Rate of Rise heat detection as DT1131A

Parameter No

A1R 1

Fixed temperature heat detection as DT1132A

Parameter No

BS 4

FDOOT241-A9	Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB221, FDB222, FDB201, FDB202, FDB299, FDB291, FDB293, FDB295, DB1101A and SPF600 bases) Note: - the following modes are approved 1 - Parameter sets for detection when connected to FDnet communication protocol and collective detector line	126bv/03

	EN 54-29 and EN 54-7 Settings: Mode 0 - "Neural Fire Detector-Multisensor Detector": Parameter No Robust 2 Balanced 4 Suppression 5 Fast Response 6 High Compensation 7 High Sensitive Fast 9 Super Sensitive 11 EN 54-5 Settings: Mode 1 - "Heat Detector": Parameter No A1R 1 BR 2 A1S 3 BS 4 EN 54-7 Settings: Mode 2 - "Smoke Detector": Parameter No Universal 1 Robust 2 Sensitive 3 Super Sensitive 5	
OOH740	Analogue Addressable Multisensor Detector with Short Circuit Isolator (DB720, DB721, DB722, BA720, BA721, DB721D & DB110 bases) Note: - the following modes are approved 1 - Parameter sets for detection when connected to C-Net detector line EN 54-29 and EN-54-7 Settings: Mode 0 - "Neural Fire Detector" Parameter No Robust 2 Balanced 4 Suppression 5 Fast Response 6 High Compensation 7 High Sensitive Fast 9 EN 54-5 Settings: Mode 1 - "Heat Detector" Parameter No A1R 1 BR 2 A1S 3	126bv/04

BS 4

EN 54-7 Settings:

Mode 2 - "Smoke Detector"

Parameter No

Universal 1

Robust 2

Sensitive 3

Super Sensitive 5

2 - Parameter sets for detection when connected to collective detector line

Parameter Resistor value in detector base

Standard Plus -

Suppression 33 K??

High Sensitive Fast 68 K??

FDOOT241-A	Analogue Addressable Multisensor Detector with Short Circuit Isolator	126bv/05

(FDB221, FDB222, FDB291, FDB293, FDB295 bases)

Note: - the following modes are approved

1 - Parameter sets for detection when connected to FDnet communication protocol and collective detector line

EN 54-29 and EN 54-7 Settings:

Mode 0 - "Multisensor Detector":

Parameter No

Robust 2

Balanced 4

Suppression 5

Fast Response 6

High Compensation 7

High Sensitive Fast 9

EN 54-5 Settings:

Mode 1 - "Heat Detector":

Parameter No

A1R 1

BR 2

A1S 3

BS 4

EN 54-7 Settings:

Mode 2 - "Smoke Detector":

Parameter No

Universal 1

Robust 2

Sensitive 3

Super Sensitive 5

FDOOTC241	Analogue Addressable Multisensor Detector with Short Circuit Isolator	126bv/06

(FDB221, FDB222, FDB295, FDSB291 & FDSB293 bases)

Note - the following modes are approved:

Mode 0 - Neural Fire Detector:

0.0 High Compensation

0.2 Robust

0.4 Balanced

0.5 Suppression

0.6 Fast Response

0.7 High Compensation

0.9 High Sensitive Fast

0.10 Balanced CO

0.12 Suppression CO

Mode 1 - Heat Detector

1.1 A1R

1.2 BR

1.3 A1S

1.4 BS

Mode 2 - Smoke Detector

2.0 Universal

2.1 Universal

2.2 Robust

2.3 Sensitive

OOHC740 Analogue Addressable Multisensor Detector with Short Circuit Isolator 126bv/08

(DB720, DB721, DB722, BA720 and BA721 bases)

Note: - the following modes are approved

1 - Parameter sets for detection when connected to C-Net detector line

Mode 0 - "Neural Fire Detector"

Parameter No

Robust 2

Balanced 4

Suppression 5

Fast Response 6

High Compensation 7

High Sensitive Fast 9

Mode 1 - "Heat Detector"

Parameter No

A1R 1

BR 2

A1S 3

BS 4

Mode 2 - "Smoke Detector"

Parameter No
Universal 1
Robust 2
Sensitive 3

Bases

FDB221 Addressable Detector Base

FDB222 Addressable Flat Detector Base

DB1151A Base for Sinteso & AlgoRex systems

DB1131A Base for Analog Plus Fire Detectors

FDB251 Base Attachment for Sinteso & AlgoRex systems

FDB295 Base Attachment Wet

FDB291 Base Attachment for Surface Mount Cable Entry

FDB293 Base Attachment Humid

FDB241 Base Adaptor for Migration Detectors

FDB201 Detector Base Collective

FDB202 Detector Base Collective, Flat

FDB299 Base Adaptor for Migration Detectors

DB1101A Base for Collective Fire Detectors

SPF600 Detector Base for Sigmasys

DB720 Detector base

DB721 Detector base with loop contact

DB722 Detector base with loop contact

DB721D Detector base with snap lock BA720 Base with surface mounted line

BA721 Base Attachment Wet

DB110 Base

Certificate No: 126bw to EN54-7:2018, EN 54-17:2005, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
FDOOT221	Analogue Addressable Multisensor Detector with Short Circuit Isolator	126bw/01
	(FDB221, FDB222, FDB293, FDB291, FDB295 bases)	
	EN 54-29 and EN 54-7 Settings:	
	Note: The following sensitivity settings are approved:	
	Parameter No. 2 Standard	
	Parameter No. 4 Standard Plus	

Bases

FDB201 Base "Collective" with stand offs

FDB202 Base "Collective" without stand offs

FDB221 Base with stand offs

FDB222 Base without stand offs

FDB291 Base Attachment for Surface Mount Cable Entry

FDB293 Base Adaptor Humid

FDB295 Base Attachment Wet

FDB299 Base

DB1101A Base

SPF600 Base

DB1131A Standard base

FDB241 Standard base for special location

DB720 Detector base

DB721 Detector base with loop contract

DB722 Detector base with loop contract

DB721D Detector base with snap lock

BA720 Base with surface mounted line

FDB251 Base adapter

FDB295 Base attachment

DB1151A Base

DB110 Base

Certificate No: 531e-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
OP720	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivities: · Standard 2.5%/m - Sensitive 1.8%/m	531e/01
OP360	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivity: Standard 2.5%/m	531e/04

Bases

DB720 Detector base

DB721 Detector base with loop contact

DB722 Detector base

BA720 Base adaptor

BA721 Base adaptor

Certificate No: 531f-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
HI720	Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor)	531f/01

	Notes: Meets the requirements of EN 54-5 at classes A2S and A2R	
HI722	Analogue Addressable Class A2S Heat Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Notes: Meets the requirements of EN 54-5 at class A2S	531f/02
HI360	Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator (DB721, DB722, DB720 bases, BA720, BA721 base adaptor) Note: Meets the requirements of EN 54-5 at classes A2S and A2R	531f/05

Bases

DB720 Detector base

DB721 Detector base with loop contact

DB722 Detector base

BA720 base adaptor

BA721 base adaptor

Certificate No: 531w-(cl-1) to EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
OH720	Analogue Addressable Multi Sensor Smoke Detector with Short Circuit Isolator (DB721, DB722, BA720 and BA721 bases) Note: 1) Meets the requirements of EN 54-7 and EN 54-29 in the following sensitivities: 1 - Robust 3.5%/m 2 - Sensitive 2.5%/m	531w/01
OH360	Analogue Addressable Multi Sensor Smoke Detector with Short Circuit Isolator (DB721, DB722, BA720 and BA721 bases) Note: 1) Meets the requirements of EN 54-7 and EN 54-29 in the following sensitivities: 1 - Robust 3.5%/m	531w/02

FDB221 Addressable Detector Base

FDB222 Addressable Flat Detector Base

DB1151A Base for Sinteso & AlgoRex systems

DB1131A Base for Analog Plus Fire Detectors

FDB251 Base Adaptor for Sinteso & AlgoRex systems

FDB295 Base Attachment Wet

FDB291 Base Attachment for Surface Mount Cable Entry

FDB293 Base Adaptor Humid

FDB241 Base Adaptor for Migration Detectors

FDB201 Detector Base Collective

FDB202 Detector Base Collective, Flat

FDB299 Base Adaptor for Migration Detectors

DB1101A Base for Collective Fire Detectors

SPF600 Detector Base for Sigmasys

DB721 Detector Base with Loop Contact

DB722 Detector Base

BA720 Base Attachment

BA721 Base Attachment Wet

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100
Website: www.smsfire.co.uk

Certificate No: 042an to
Certificate No: 042bf to

Multi Criteria Detectors

Product Name	Description	LPCB Ref. No
SEN-710	S-Quad Analogue Addressable Optical Smoke and Category A1 Heat Multi-Sensor Detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Category A1 heat State 2 - Low sensitivity / Category A1 heat* State 3 - High sensitivity / Category A1 heat State 4 - Medium optical (no spoke) / Category A1 heat State 5 - Medium optical / Category B heat State 6 - Low sensitivity / Category BS heat* State 7 - Medium optical / Category A2S heat State 8 - Delayed medium optical / Category A1 heat State 11 - Low sensitivity / Category B heat* State 12 - Off / Category A1 heat* *Does not meet the requirement of EN 54-7	042bf/01

Bases:

S4-700 standard base

S4-701 S4 Quad Plate and Base

S4-FLUSH Semi-flush fixing kit

Certificate No: 042bd to
Certificate No: 042be to

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
SEN-720	S-Quad Analogue Addressable Category P Heat Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note: 1. Meets the requirement of EN 54-5 at the following settings: - State 0 - Category A1 heat	042be/01

- State 5 - Category B heat
- State 6 - Category BS heat
- State 7 - Category A2S heat
- State 13 - Category A2 heat

SEN-715	S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) *Note:* *1. Meets the requirements of EN 54-7 at the following settings:* *- State 0 - Medium optical* *- State 3 - High sensitivity* *- State 4 - Medium optical (no spike)* *- State 8 - Delayed medium optical*	042bd/01

Bases:

S4-700 standard base

S4-FLUSH semi-flush fixing kit

Certificate No: 567aa-(cl-1) to EN54-5: 2017 + A1: 2018, EN 54-3:2014 + A1:2019, EN54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SEN-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700 Standard base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	567aa/01
SEN-M-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	567aa/02

Bases:

S4-700 standard base

S4-701 S4 Quad Plate and Base

S4-FLUSH Semi-flush fixing kit

Certificate No: 567ab-(cl-1) to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005, EN 54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SEN-770-VAD-HPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and Red Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/01
SEN-770-VAD-HPW	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and White Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat	567ab/02

- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- High power setting - (Category C: C-6-16)
- Medium power setting - (Category C: C-3-14 and Category O: O-5-14)
- Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8
- Synchronization
- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

SEN-770-VAD-LPW — Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and White Visual Alarm (S4-701 Base) — 567ab/03

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High- Continuous 933 Hz
- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- Low power setting - (Category C: C-3-10)
- Synchronization
- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

SEN-770-VAD-LPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and Red Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings: - State 0 - Medium Optical / Category A1 Heat - State 5 - Medium Optical / Category B Heat - State 8 - Delayed Medium Optical / Category A1 Heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/09
SEN-M-770-VAD-HPR	SENTRI M Optical Heat Sensor, Sounder & High Power Red VAD (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/18
SEN-M-770-VAD-LPR	SENTRI M Optical Heat Sensor, Sounder & Low Power Red VAD (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings:	567ab/19

- High - Continuous 933 Hz

- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat

- State 2 - Low sensitivity / Category A1 heat*

- State 3 - High sensitivity / Category A1 heat

- State 4 - Medium optical (no spike) / Category A1 heat

- State 5 - Medium optical / Category B heat

- State 6 - Low sensitivity / Category BS heat*

- State 7 - Medium optical / Category A2S heat

- State 8 - Delayed medium optical / Category A1 heat

- State 11 - Low sensitivity / Category B heat*

- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):

- Low power setting - (Category C: C-3-10)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

Bases:

S4-701 S4 Quad Plate and Base

Certificate No: 567ac-(cl-1) to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SEN-780-VAD-HPR	Analogue Addressable Category P Heat Sensor with Red Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS Heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 or the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13)	567ac/03

- Low power setting - (Category C: C-3-10 and Category O: None)

- Synchronization

- Flash rate 2 seconds (0.5Hz)

4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C

SEN-780-VAD-LPW	Analogue Addressable Category P Heat Sensor with White Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS Heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ac/04
SEN-780-VAD-HPW	Analogue Addressable Category P Heat Sensor with White Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS Heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 category (light pattern details): - High power setting - (Category C: C-6-16 and Category O: None) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ac/05

SEN-M-780-VAD-HPR	SENTRI M Heat Sensor, Sounder & High Power Red VAD (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ac/08

Bases:

S4-701 S4 Quad Plate and Base

Certificate No: 567an-(cl-1) to EN 54-12: 2015, EN 54-17:2005

Beam Detectors

Product Name	Description	LPCB Ref. No
SENTRI-BEAM	Analogue addressable optical beam smoke detector with short circuit isolator (SEN-741-01, SEN-741-03 and S4-700 base) Notes: 1. The SENTRI-BEAM sensor pair comprises of an SENTRI-BEAM-TX beam transmitter, plus an SENTRI-BEAM-RX beam receiver. 2. Meets the requirements of EN 54-12 at the following sensitivity settings: States 0, 1: 3.01dB States 2, 3: 1.25dB	567an/01

SEN-741-01 Beam Angle Bracket

SEN-741-03 Beam Parallel Bracket

S4-700 Base

Certificate No: 567j-(cl-1) to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1 :2018, EN 54-7: 2018, EN 54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SEN-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz	567j/08

Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet the requirements of EN 54-7

SEN-M-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit)	567j/12

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High- Continuous 933 Hz
- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

- State 0 - Medium optical / Category A1 heat
- State 2 - Low sensitivity / Category A1 heat*
- State 3 - High sensitivity / Category A1 heat
- State 4 - Medium optical (no spike) / Category A1 heat
- State 5 - Medium optical / Category B heat
- State 6 - Low sensitivity / Category BS heat*
- State 7 - Medium optical / Category A2S heat
- State 8 - Delayed medium optical / Category A1 heat
- State 11 - Low sensitivity / Category B heat*
- State 12 - Off / Category A1 heat*

*Does not meet with the requirements of EN 54-7

Bases:

S4-700 standard base

S4-FLUSH Semi-flush fixing kit

Sodcks

8 Mogamaa Al-Fardous, Nasar City, Cairo, 11511, Egypt

Certificate No: 1426b-(cl-7) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No

H200	Addressable Heat Detector (B123 Base) Notes: Meets the requirements of EN 54-5 for Category A2	1426b/01

Base

B123

Certificate No: 1426c-(cl-7) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
S100	Addressable Smoke Detector (B123 Base) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1426c/01
S105	Conventional Optical Smoke Detector (SB105 Base) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1426c/02

Base

B123

SB105

Certificate No: 1426k-(cl-5) to EN 54-5:2017 + A1:2018, EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
M300	Analogue Addressable Optical/Heat Multi-sensor Detector (Base B123) Notes: 1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2. 2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1	1426k/01

Base

B123

SVS Buildwel Private Limited

9/C-8, Sector-7, Rohini, New Dehli, 11085, India
Tel: 011-27053918 • Alt Tel: 011-27053818
E-mail: Info@svslifesafety.com

Certificate No: 1330b-(cl-10) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SHFT80SD	Photoelectric Detector (SHFT80DB base)	1330b/01

Base

- Detector Base

Certificate No: 1330c-(cl-10) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SHFT80HD	Fixed and Rate of Rise Type Heat Detector (SHFT80DB Detector Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base
SHFT80DB Detector Base

Certificate No: 1330j-(cl-9) to EN 54-29: 2015

Multi-Sensor/ Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SHFT80MD	Optical and Heat (Rate of Rise Type) Multi-sensor Detector (SHFT80DB Detector Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

Base
SHFT80DB Detector Base

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London, W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010h-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
5000-400	Syncoln Analogue Addressable Multisensor Detector (5000-100 base) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

Base

5000-100 Syncoln Mounting Base

Certificate No: 010p-(cl-6) to EN 54-5:2017 +A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No

5000-300	Syncoln Analogue Addressable Heat Detector (5000-100 base) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: - Category A1R in mode 1 and in conventional mode - Category A2 in mode 2 and in conventional mode - Category A2S in mode 3 and in conventional mode - Category CR in mode 4 and in conventional mode - Category CS in mode 5 and in conventional mode Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/03
2000-300	Syncoln Series 27 A1R Heat Detector with Flashing LED (2000-100 base) Note: Meets the requirements of EN54: Part 5 at Category A1R	010p/05
2000-301	Syncoln Series 27 BR Heat Detector with Flashing LED (2000-100 base) Note: 1. Meets the requirements of EN54: Part 5 at Category BR	010p/08
2000-302	Syncoln Series 27 CS Heat Detector with Flashing LED (2000-100 base) Note: 1. Meets the requirements of EN54: Part 5 at Category CS	010p/14

Bases

2000-100 Syncoln Series 27 Standard Base

5000-100 Syncoln Mounting Base

Certificate No: 010q-(cl-6) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
5000-200	Syncoln Analogue Addressable Photoelectric Smoke Detector (5000-100 base) Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
2000-200	Syncoln Series 27 Optical Smoke Detector with Flashing LED (2000-100 base)	010q/11

Bases

2000-100 Syncoln Series 27 Standard Base

5000-100 Syncoln Mounting Base

Tanda (UK) Limited

80 Coleman Street, London, EC2R 5BJ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330a-(cl-1) to EN 54-12:2015

Beam Detectors

Product Name	Description	LPCB Ref. No
TX7130	Conventional Reflective Beam Detector	1330a/01
	Notes:	
	1. Meets the requirements of EN 54-12 at the following sensitivity settings:	
	Level 1: 2.6 dB High sensitivity	
	Level 2: 3.8 dB Medium sensitivity	
	Level 3: 5.8 dB Low sensitivity	
	2. Suitable for use at the following separation ranges:	
	Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)	
	Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)	
	Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)	
	Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	

Accessories:

Mounting Bracket

TX7130-R 1 x Mirror Reflector

TX7130-R 4 x Mirror Reflector

Certificate No: 1330b-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
TX7100	Intelligent Smoke Detector (TX7980 base)	1330b/01

Base

TX7980 Detector base

Certificate No: 1330c-(cl-1) to EN 54-5:2017 +A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
TX7110	Intelligent Heat Detector (TX7980 Base)	1330c/01
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R.	

Base

TX7980 Detector Base

Certificate No: 1330j-(cl-1) to EN 54-29:2015

Product Name	Description	LPCB Ref. No
TX7120	Intelligent Multi-sensor Fire Detector (TX7980 Base)	1330j/01
	Notes:	
	Meets the requirements of EN 54-29 for Heat Category A2R	

Base

TX7980

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore, 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330a-(cl-8) to EN 54-12:2015

Product Name	Description	LPCB Ref. No
TX7130	Conventional Reflective Beam Detector	1330a/01
	Notes:	
	1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:	
	- Level 1: 2.6 dB High sensitivity	
	- Level 2: 3.8 dB Medium sensitivity	
	- Level 3: 5.8 dB Low sensitivity	
	2. Suitable for use at the following separation ranges:	
	- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)	
	- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)	
	- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)	
	- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	
	Accessories	
	Mounting Bracket	
	TX7130-R 1 x Mirror Reflector	
	TX7130-R 4 x Mirror Reflector	

Certificate No: 1330b-(cl-4) to EN 54-7: 2018

Product Name	Description	LPCB Ref. No
TX7100	Intelligent Smoke Detector (TX7980 Base)	1330b/01

Base

TX7980

Certificate No: 1330c-(cl-4) to EN 54-5: 2017+ A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
TX7110	Intelligent Heat Detector (TX7980 Base)	1330c/01
	Note:	
	1. Meets the requirements of EN 54-5 for Category A1R	

Base

TX7980

Certificate No: 1330j-(cl-4) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
TX7120	Intelligent Multi-sensor Fire Detector (TX7980 Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

Base

TX7980

Tanda Technologies (Singapore) Pte Ltd

217 Kallang Bahru, #04-02, Singapore, 339347, Singapore
Tel: +62913176
E-mail: tandatech@yahoo.com

Certificate No: 1148a-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
DET-C632	Conventional rate of rise & fixed temperature heat detector (DB-6 standard base) Note: Meets the requirements of EN 54-5 at Category A2R	1148a/01

Bases: DB-6 Standard detector base

Certificate No: 1148b-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
DET-C631	Conventional Optical Smoke Detector (DB-6 standard base) Note: Meets the requirements of EN 54-7 in the normal sensitivity setting.	1148b/01

Bases: DB-6 Standard detector base

Teknim Elektronik San. ve Tic. A.S.

Dudullu OSB, 1.Cadde Ismet Tarman Is Merkezi, N:1 K:2/32 Ümraniye, Istanbul, 34776, Turkey
Tel: +902164558846
E-mail: sales@bilgielektronik.com.tr • Website: www.teknim.com.tr

Certificate No: 1692a to EN 54-7: 2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
TFD-4230	Conventional Optical Smoke Detector (Standard Base) Note: 1. Meets the requirements of EN 54-7 at sensitivity level 1 (default) setting only	1692a/01

Base
Standard Base

Certificate No: 1692b to EN 54-5:2017 + A1: 2018

Product Name	Description	LPCB Ref. No
TFD-4240	Conventional Heat Detector (Fixed Heat) (Standard Base) Note: 1. Meets the requirements of EN 54-5 for Category A2S.	1692b/01
TFD-4245	Conventional Rate of Heat Rise Detector (Standard Base) Note: 1. Meets the requirements of EN 54-5 for Category A2R.	1692b/02

Base
Standard Base

Certificate No: 1692c to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
TFD-4250	Conventional Fixed Heat and Smoke Multi-Sensor Detector (Standard Base) Notes 1. Meets the requirements of EN 54-5 for Category A2S. Meets the requirements of EN 54-7 at sensitivity level 1 (default) setting only	1692c/01

Base
Standard Base

Teletek Electronics JSC

14A Srebarna Street, Sofia, 1407, Bulgaria
Tel: +359 2 9694 700
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139j to EN 54-5:2017 + A1: 2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
SensoIRIS T110 IS	Intelligent Analogue Addressable Class A1R Fire Alarm Heat Detector with Built-In Isolator Module (B124 Base)	1139j/01

Base:

B124 Standard analogue addressable detector base

Certificate No: 1139k to EN 54-7:2018, EN 54-17: 2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
SensoIRIS S130 IS	Intelligent Analogue Addressable Fire Alarm Optical Smoke Detector with Built-In Isolator Module (B124 Base)	1139k/01

Base:

B124 Standard analogue addressable detector base

Certificate No: 1139m to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021: 2003, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SensoIRIS M140 IS	Intelligent Analogue Addressable A1R Combined Heat and Optical Smoke Detector with Built-In Isolator Module (B124 Base)	1139m/01

Base:

B124 Standard analogue addressable detector base

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC, 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174a to EN 54:7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
VC-6623	Conventional Optical Smoke Detector (VB-6611 base) Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only	1174a/01
VI-6627	Digital Optical Smoke Detector (VB-6617 base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Base
VB-6611 Base
VB-6617 Addressable Mounting Base

Certificate No: 1174b to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
VC-6633	Conventional Heat Detector (VB-6611 base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01
VI-6637	Digital Heat Detector (VB-6617 base) Note: 1. Meets the requirements of EN 54-5 at Category A1R and A2	1174b/02

Bases
VB-6611 Base
VB-6617 Addressable Mounting Base

Certificate No: 1174f to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No

VI-6647	Digital Smoke and Heat Detector (VB-6617 base) Notes: 1) Meets the requirements of EN 54-5 at Category A1R and A2 2) Meets the requirements of EN 54-7 at the following sensitivity settings - Smoke Mode 2 and A1R - Smoke Mode 2 and A2 - Smoke Mode 2 (Smoke only), heat disabled	1174f/01

Base

VB-6617 Addressable Mounting Base

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, 8212, Switzerland
Tel: +44 (0)1462 667700
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681ay-(cl-1) to EN 54-7:2018, EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
711PH	Conventional Optical Smoke Detector with Heat Enhancement (516.900.102) (4B, 4B-D, 5B and 5B-D bases)	681ay/01
701PH	Conventional Optical Smoke Detector with Heat Enhancement (516.900.002) (4B, 4B-D, 5B and 5B-D bases)	681ay/02

Bases

4B Universal Mounting Base

4BD Diode Mounting Base

5B Universal Mounting Base

5BD Conventional Diode Base

Certificate No: 681az-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
701P	Conventional Optical Detector (516.900.001) (4B, 4BD, 5B and 5BD bases)	681az/01
711P	Conventional Optical Detector (516.900.101) (4B, 4BD, 5B and 5BD bases)	681az/02
FC460P	FireClass Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Note: Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	681az/03
840P	MX Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases)	681az/04

	Note: Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	
830P (516.830.052)	MX Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681az/05
4098-6256	Simplex Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681az/05
835P (516.835.052)	Photo Detector (4B, 5B, 4B-I, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housing:	681az/06

	- Black matt (517.051.511)	
601P	Conventional Optical Smoke Detector (4B, 4B-D and 5B bases)	681az/07

Bases:
4B 4 Universal Mounting Base
4B-C 4" Continuity Base
4B-D Diode Mounting Base
4B-I 4 Isolator Base
5B 5 Universal Mounting Base
5BD Conventional Diode Base
4098-5272 Standard 4IN Detector Base

Certificate No: 681b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
830PC (516.830.054)	MX Digital Addressable Photoelectric Smoke, Category P Heat and Carbon Monoxide Detector (4B, 4B-C, 4B-I, and 5B bases) Notes: 1) Approved with the following mode configurations:- - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at Normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3) Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681b/03
840PH	MX Digital Addressable Photoelectric Smoke and Category P Heat Detector (4B, 4B-C, 4B-I, and 5B bases) Note: Approved with the following mode configurations:- - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681b/04

830PH (516.830.051)	MX Digital Addressable Photoelectric Smoke and Category P Heat Detector (4B, 4B-C, 4B-I, and 5B bases) Notes: 1) Approved with the following mode configurations:- - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2) Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681b/05
4098-6257	Simplex Digital Addressable Photo / Heat 830 Series Sensor (4098-5272 base) Notes: 1) Approved with the following mode configurations:- - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681b/05
FC460PH	FireClass Digital Addressable Photoelectric Smoke and Category P Heat Detector (4B, 4B-C, 4B-I, and 5B bases) Notes: 1) Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681b/06
FC460PC	FireClass Digital Addressable Photoelectric Smoke, Category P Heat and Carbon Monoxide Detector (4B, 4B-C, 4B-I, and 5B bases)	681b/07

	Notes: 1) Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at Normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently.	
835PH (516.835.051)	Photo Heat Detector (4B, 5B, 4B-I, 4B-C bases) Notes: 1) Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic 2) Also available in the following coloured housing: - Black matt (517.051.511)	681b/08
835PC (516.835.054)	3oTec Triple Sensor Detector (Smoke, Heat and CO) (4B, 5B, 4B-I, 4B-C bases) Notes: 1) Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at Normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3) Also available in the following coloured housing: - Black matt (517.051.511)	681b/09

Bases:
4B 4 Universal Mounting Base
4B-D 4 Diode Mounting Base
4B-C 4" Continuity Base
4B-EN 4" Ex(N) Mounting Base
5B 5 Universal Mounting Base
5BD Conventional Diode Base
MUBEx Intrinsically Safe Detector Base
5BEx Intrinsically Safe Detector Base

Certificate No: 681ba-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
701H	Conventional Category A1R Rate of Rise Heat Detector (516.900.003) (4B, 4BD, 5B and 5BD Bases)	681ba/01
702H	Conventional Category A1S Fixed (60C) Heat Detector (516.900.004) (4B, 4BD, 5B and 5BD Bases)	681ba/02

703H	Conventional Category CS Fixed (90C) Heat Detector (516.900.005) (4B, 4BD, 5B and 5BD Bases)	681ba/03
711H	Conventional Rate of Rise A1R Heat Detector (516.900.103) (4B, 4BD, 5B and 5BD Bases)	681ba/04
712H	Conventional Fixed (60C) A1S Heat Detector (516.900.104) (4B, 4BD, 5B and 5BD Bases)	681ba/05
713H	Conventional Fixed (90C) CS Heat Detector (516.900.105) (4B, 4BD, 5B and 5BD Bases)	681ba/06
FC460H	FIRECLASS Digital Addressable Category P Heat Detector (4B, 4B-I and 5B bases) Note: Approved with the following mode configurations: - - Heat Detector at Category A1R - Heat Detector at Category A2S - Heat Detector at Category CR	681ba/07
840H	MX Digital Addressable Category P Heat Detector (4B, 4B-I, and 5B bases) Note: Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR	681ba/08
830H	MX Digital Addressable Category P Heat Detector (4B, 4B-I, and 5B bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681ba/09
4098-6255	Simplex Digital Addressable Category P Heat Detector (4098-5272 base) Notes:	681ba/09

	1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
835H (516.835.053)	Heat Detector (4B, 5B, 4B-I, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housing: - Black matt (517.051.511)	681ba/10
601H-R	Conventional Category A1R Heat Detector (4B, 4B-D & 5B bases)	681ba/11
MD601Ex	Conventional Intrinsically Safe Category A1R Rate of Rise Heat Detector (MUBEx and 5BEx bases)	681ba/12
MD611Ex	Conventional Intrinsically Safe Category A1S Fixed Temperature Heat Detector (MUBEx and 5BEx bases)	681ba/13
611H-F	Conventional Category A1S Fixed Temperature Heat Detector (4B, 4B-D and 5B bases)	681ba/14
631H-F	Conventional Category CS Fixed Temperature Heat Detector (4B, 4B-D and 5B bases)	681ba/15

Bases:
4B 4 Universal Mounting Base
4B-D 4 Diode Mounting Base
4B-C 4" Continuity Base
4B-I 4 Isolator Base
5B 5 Universal Mounting Base
5BD Conventional Diode Base
MUBEx Intrinsically Safe Detector Base
5BEx Intrinsically Safe Detector Base
4098-5272 Standard 4IN Detector Base

Certificate No: 681e-(cl-1) to EN 54-5:2017 + A1:2018, LPS 1265 Issue 1.0

Carbon Monoxide Detectors

Product Name	Description	LPCB Ref. No

601CH	Conventional Thermally Enhanced Carbon Monoxide and Category A1R Heat Detector (4B, 4B-D and 5B Bases)	681e/01

Bases:

4B 4 Universal Mounting Base

4B-D Diode Mounting Base

5B 5 Universal Mounting Base

Certificate No: 681j-(cl-1) to EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
601PH	Conventional High Performance Photoelectric Smoke Detector (4B, 4B-D and 5B Bases)	681j/01
MR601TEx	Conventional Intrinsically Safe High Performance Photoelectric Smoke Detector with Heat Enhancement (MUBEx base, 5BEx Bases)	681j/02

Bases

4B 4 Universal mounting base

4B-D 4 Diode mounting base

5B 5 Universal mounting base

MUBEx Intrinsically safe detector base

5BEx Intrinsically safe detector base

Certificate No: 681p-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No
850H (516.850.053)	MX Digital Addressable Category P Heat Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681p/01
850H (516.850.053.E)	MX Digital Addressable Category P Heat Detector with Short Circuit Isolator (4B, 4B-C and 5B bases)	681p/01

	Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
4098-6253	Simplex Digital Addressable Category P Heat Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	691p/01
855H (516.855.053)	Heat Detector with SCI (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housing: - Black matt (517.051.511)	681p/02

Bases
4B 4 Universal Mounting Base
4B-C 4 Continuity Base
5B 5 Universal Mounting Base
4098-5272 Standard 4IN Detector Base

Certificate No: 681r-(cl-1) to EN 54-10:2002 + A1:2005

Flame Detectors

Product Name	Description	LPCB Ref. No
601F	Conventional Class 2 Flame Detector (4B, 4B-D and 5B bases)	681r/01
601FEx	Conventional Class 2 Intrinsically Safe Flame Detector (MUBEx and 5BEx bases)	681r/02
801F	MX Addressable Class 2 Flame Detector (4B and 5B bases)	681r/03
801FEx	MX Addressable Class 2 Intrinsically Safe Flame Detector (MUBEx and 5BEx bases)	681r/04

Bases:

4B 4 Standard mounting base

4B-D 4 Diode mounting base

5B Standard mounting base

MUBEx Intrinsically safe mounting base

5BEx Intrinsically safe mounting base

Certificate No: 681w-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
850PC (516.850.054)	MX Digital Addressable Photoelectric Smoke, Category P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/01
850PC (516.850.054.E)	MX Digital Addressable Photoelectric Smoke, Category P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes:	681w/01

	1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
4098-6254	Simplex Digital Addressable Photoelectric Smoke, Category P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/01
850PH (516.850.051)	MX Digital Addressable Photoelectric Smoke and Category P Heat Detector with Short Circuit Isolator (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Category A1R	681w/03

	- Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
850PH (516.850.051.E)	MX Digital Addressable Photoelectric Smoke and Category P Heat Detector with Short Circuit Isolator (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/03
4098-6251	Simplex Digital Addressable Photoelectric Smoke and Category P Heat Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S	681w/03

	- OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
851PH	MX Digital Addressable Photoelectric Smoke and Category P Heat Detector with Short Circuit Isolator [Marine version] (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681w/04
855PH (516.855.051)	Photo Heat Detector with SCI (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housing: - Black matt (517.051.511)	681w/06
855PC (516.855.054)	3oTec Triple Sensor Detector with SCI (Smoke, Heat & CO) (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Category A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not	681w/07

approved independently.

3. Also available in the following coloured housing:

-Black matt (517.051.511)

Bases
4B 4 Universal mounting base
4B-C 4 Continuity base
4B-EN 4 Ex{N} mounting base
5B 5 Universal mounting base
4098-5272 Standard 4 Detector Base

Certificate No: 681z-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
850P (516.850.052)	MX Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681z/01
850P (516.850.052.E)	MX Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509)	681z/01

	- Gold metallic (517.050.510) - Black matt (517.050.511)	
4098-6252	Simplex Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681z/01
855P (516.855.052)	Photo Detector with SCI (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housing: - Black matt (517.051.511)	681z/02

Bases
4B 4 Universal Mounting Base
4B-C 4 Continuity Base
5B 5 Universal Mounting Base
4098-5272 Standard 4IN Detector Base

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Certificate No: 1174a-(cl-1) to EN 54-7:2018

Smoke Detector

Product Name	Description	LPCB Ref. No
VG-6623	Conventional Optical Smoke Detector (VG-6611 base)	1174a/01

	Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only	
VG-6627	Addressable Optical Smoke Detector (VG-6617 base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Bases

VG-6611 Base

VG-6617 Addressable mounting base

Certificate No: 1174b-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
VG-6633	Conventional Heat Detector (VG-6611 base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01
VG-6637	Addressable Heat Detector (VG-6617 base) Note: 1. Meets the requirements of EN 54-5 at Category A1R and A2	1174b/02

Bases

VG-6611 Base

VG-6617 Addressable mounting base

Certificate No: 1174f-(cl-2) to EN 54-5:2017 + A1:2018; EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
VG-6647	Addressable Smoke and Heat Detector (VG-6617 base) Notes: 1) Meets the requirements of EN 54-5 at Category A1R and A2 2) Meets the requirements of EN 54-7 at the following sensitivity settings - Smoke Mode 2 and A1R - Smoke Mode 2 and A2 - Smoke Mode 2 (Smoke only), heat disabled	1174f/01

Bases

VG-6617 Addressable mounting base

Vighnaharta Technologies Pvt Ltd.

Survey No. 11/11, Karanjakar Estate, Nanded Gaon, Pune MH-, 411041, India
Tel: +91-9011033259
E-mail: sales@vighnaharta.in • Website: www.vighnaharta.in

Certificate No: 010h-(cl-4) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
MSD-700TSF	TrueSafe Multisensor Detector Addressable (BASE-210TSF)	010h/01
	Notes:	
	1. Certified at the following settings:	
	Mode 1 High sensitivity smoke detector with standard heat enhancement	
	Mode 2 Smoke detection only	
	Mode 3 Medium sensitivity smoke detector with standard heat enhancement	
	Mode 4 Low sensitivity smoke detector with high heat enhancement	
	Mode 5 Class A1 heat detector	
	Also approved in conventional alarm modes 1, 2, 3, 4 and 5	

Base

BASE-210TSF TrueSafe Detector Base

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL, 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426b-(cl-1) to EN 54-5: 2017+ A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
VI 200-T	Intelligent Addressable Heat Detector (DZ-912 Base)	1426b/01
	Notes:	
	Meets the requirements of EN 54-5 for Category A2	

Base

DZ-912

Certificate No: 1426c-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
VI 200-0	Intelligent Addressable Smoke Detector (DZ-912 Base)	1426c/01
	Notes:	
	Meets the requirements of EN 54-7 for 1 sensitivity setting	

Wagner Group GmbH

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Tel: +49 511 97383 0
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Certificate No: 524c to EN 54-20: 2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
TITANUS PRO-SENS	**Notes:** 1. Approval of the detector is conditional upon the following requirements: · For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. · System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1. · The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131. 2. Approved detector configurations (Class A, Class B and Class C): · TP-1/a (standard version, no bargraph display, 1 alarm, not available for networking) · TP-1-F/a (deep freeze version, no bargraph display, 1 alarm, not available for networking) · TP-1-SL (silent version, no bargraph display, 1 alarm, not available for networking) 3. The approved detector must incorporate one or two of the following detector modules: · DM-TP-01-L (standard version, sensitivity of 0.015%/m) · DM-TP-01-L-F (deep freeze version, sensitivity of 0.015%/m) · DM-TP-10-L (standard version, sensitivity of 0.10%/m) · DM-TP-10-L-F (deep freeze version, sensitivity of 0.10%/m) · DM-TP-50-L (standard version, sensitivity of 0.50%/m) · DM-TP-50-L-F (deep freeze version, sensitivity of 0.50%/m)	524c/01
TITANUS PRO-SENS/net	**Notes:** 1. Approval of the detector is conditional upon the following requirements: · For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. · System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1. · The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131. 2. Approved detector configurations (Class A, Class B and Class C): · TP-3 (standard version, no bargraph display, 1 alarm, prepared for networking) · TP-3-F (deep freeze version, no bargraph display, 1 alarm, prepared for networking) · TP-3-SL (silent version, no bargraph display, 1 alarm, prepared for networking) · TP-4 (standard version, no bargraph display, 2 alarms, prepared for networking) · TP-4-F (deep freeze version, no bargraph display, 2 alarms, prepared for networking)	524c/02

· TP-4-SL (silent version, no bargraph display, 2 alarms, prepared for networking)

· TP-5 (standard version, no bargraph display, 3 alarms, prepared for networking)

· TP-5-F (deep freeze version, no bargraph display, 3 alarms, prepared for networking)

· TP-5-SL (silent version, no bargraph display, 3 alarms, prepared for networking)

3 The approved detector must incorporate one or two of the following detector modules:

· DM-TT-01-L (standard version, sensitivity of 0.015%/m)

· DM-TT-01-L-F (deep freeze version, sensitivity of 0.015%/m)

· DM-TT-10-L (standard version, sensitivity of 0.10%/m)

· DM-TT-10-L-F (deep freeze version, sensitivity of 0.10%/m)

· DM-TT-50-L (standard version, sensitivity of 0.50%/m)

· DM-TT-50-L-F (deep freeze version, sensitivity of 0.50%/m)

TITANUS TOP-SENS

Notes: 524c/03

1. Approval of the detector is conditional upon the following requirements:

· For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.

· System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1.

· The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.

2. Approved detector configurations (Class A, Class B and Class C):

· TT-1/a (standard version, bargraph display, 3 alarms, prepared for networking)

· TT-1-F/a (deep freeze version, bargraph display, 3 alarms, prepared for networking)

· TT-1-SL (silent version, bargraph display, 3 alarms, prepared for networking)

3. The approved detector must incorporate one or two of the following detector modules:

· DM-TT-01-L (standard version, sensitivity of 0.015%/m)

· DM-TT-01-L-F (deep freeze version, sensitivity of 0.015%/m)

· DM-TT-10-L (standard version, sensitivity of 0.10%/m)

· DM-TT-10-L-F (deep freeze version, sensitivity of 0.10%/m)

· DM-TT-50-L (standard version, sensitivity of 0.50%/m)

· DM-TT-50-L-F (deep freeze version, sensitivity of 0.50%/m)

TITANUS MICRO-SENS 524c/04

{\rtf1\ansi\ansicpg1252\deff0{\fonttbl{\f0\fswiss\fprq2\fcharset0 Arial;}{\f1\froman\fprq2\fcharset2 Symbol;}{\f2\fnil\fcharset0 Arial;}{\f3\fnil\fcharset2 Symbol;}}{\colortbl ;\red0\green0\blue0;} {*\generator Riched20 12.0.6500.5000;}\viewkind4\uc1 \pard\b\f0\fs18\lang2057 Notes:\b0\par \pard\fi-360\li360\lang1033 1.\tab Approval of the detector is conditional upon the following requirements: \par \pard\fi-360\li720\f1\'b7\tab\f0 For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.\par \f1\'b7\tab\f0 System design, installation and commissioning shall be performed in accordance with the manufacturer\rquote s installation guide, associated manuals and design software TF-SC-1.\par \f1\'b7\tab\f0 The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.\par \par \pard\fi-360\li360 2.\tab Approved detector configurations, sensitivity of 0.10%/m (Class A, Class B and Class C):\par \pard\fi-360\li720\f1\lang2057\'b7\tab\f0 DM-TM-10 (standard version)\par \f1\'b7\tab\f0 DM-TM-R-10 (version with ROOM IDENT)\par \f1\'b7\tab\f0 DM-TM-B-10 (version with bargraph display)\par \f1\'b7\tab\f0 DM-TM-RB-10 (version with ROOM IDENT, bargraph display)\par \f1\'b7\tab\f0 DM-TM-Z-10 (version with redundancy fan)\par \f1\'b7\tab\f0 DM-TM-ZB-10 (version with redundancy fan, bargraph display)\par \f1\'b7\tab\f0 DM-TM-10-F (deep freeze version)\par \f1\'b7\tab\f0 DM-TM-B-10-F (version with bargraph display, deep freeze)\par \f1\'b7\tab\f0 DM-TMV-10 (version with 2 stages of alarm)\par \f1\'b7\tab\f0 DM-TMV-R-10

	(version with 2 stages of alarm, ROOM IDENT)\par \f1\'b7\tab\f0 DM-TMV-B-10 (version with 2 stages of alarm, bargraph display)\par \f1\'b7\tab\f0 DM-TMV-RB-10 (version with 2 stages of alarm, ROOM IDENT, bargraph display)\par \f1\'b7\tab\f0 DM-TMV-10-F (version with 2 stages of alarm, deep freeze)\par \f1\'b7\tab\f0 DM-TMV-B-10-F (version with 2 stages of alarm, bargraph display, deep freeze)\par \f1\'b7\tab\f0 DM-MB-TM-10 (version without fan to be used as detector box)\par \pard{\pntext\f3\'B7\tab} {*\pn\pnlvlblt\pnf3\pnindent0{\pntxtb\'B7}}\fi-360\li720 DM-MB-TM-B-10 (version without fan to be used as detector box, bargraph display)\lang1033\par \pard\li360\par \pard\fi-360\li360 3.\tab Approved detector configurations, sensitivity of 0.50%/m (Class A, Class B and Class C):\par \pard\fi-360\li720\f1\lang2057\'b7\tab\f0 DM-TM-50 (standard version)\par \f1\'b7\tab\f0 DM-TM-R-50 (version with ROOM IDENT)\par \f1\'b7\tab\f0 DM-TM-B-50 (version with bargraph display)\par \f1\'b7\tab\f0 DM-TM-RB-50 (version with ROOM IDENT, bargraph display)\par \f1\'b7\tab\f0 DM-TM-Z-50 (version with redundancy fan)\par \f1\'b7\tab\f0 DM-TM-ZB-50 (version with redundancy fan, bargraph display)\par \f1\'b7\tab\f0 DM-TM-50-F (deep freeze version)\par \f1\'b7\tab\f0 DM-TM-B-50-F (version with bargraph display, deep freeze)\par \f1\'b7\tab\f0 DM-TMV-50 (version with 2 stages of alarm)\par \f1\'b7\tab\f0 DM-TMV-R-50 (version with 2 stages of alarm, ROOM IDENT)\par \f1\'b7\tab\f0 DM-TMV-B-50 (version with 2 stages of alarm, bargraph display)\par \f1\'b7\tab\f0 DM-TMV-RB-50 (version with 2 stages of alarm, ROOM IDENT, bargraph display)\par \f1\'b7\tab\f0 DM-TMV-50-F (version with 2 stages of alarm, deep freeze)\par \f1\fs16\'b7\tab\f0\fs18 DM-TMV-B-50-F (version with 2 stages of alarm, bargraph display, deep freeze)\par \f1\fs16\'b7\tab\f0\fs18 DM-MB-TM-50 (version without fan to be used as detector box)\par \f1\fs16\'b7\tab\f0\fs18 DM-MB-TM-B-50 (version without fan to be used as detector box, bargraph display)\par \pard\cf1\f2\fs17\par }	
TITANUS RACK-SENS	**Notes:** 1. Approval of the detector is conditional upon the following requirements: · For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. · System design, installation and commissioning shall be performed in accordance with the manufacturers installation guide, associated manuals and design software TF-SC-1. · The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131. 2. Approved detector configurations (Class A, Class B and Class C): · TR1-10 (placed in a 1U housing, sensitivity of 0.10%/m) · TR1-50 (placed in a 1U housing, sensitivity of 0.50%/m) · TR2-10 (placed in a 2U housing, sensitivity of 0.10%/m) · TR2-50 (placed in a 2U housing, sensitivity of 0.50%/m)	524c/05

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 904b-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SIGA-HRDI	Intelligent Category A1/A2R Fixed Temperature and Rate of Rise Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4,SIGA-IB, SIGA-IB4, SIGI-IBS and SIGA-AB4G bases) Note: 1) The SIGA-LED indicator is also approved for use with the SIGA-SB and SIGA-SB4 bases.	904b/03

Bases: SIGI-IBS Isolator base SIGA-SB Standard base SIGA-SB4 Standard base with trim skirt SIGA-RB Relay base SIGA-RB4 Relay base with trim skirt SIGA-IB Isolator Base SIGA-IB4 Isolator base with 4 inch mounting adaptors SIGA-AB4G Sounder base SIGA-AB4GI Addressable Type A sounder base RoHS model **Accessories:** SIGA-LED Indicator

Certificate No: 904d-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SIGA-PDI	Intelligent Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G) Notes: 1. Meets the requirements of EN 54-7:2018 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases.	904d/03

Bases: SIGI-IBS Isolator base SIGA-SB Standard base SIGA-SB4 Standard base with trim skirt SIGA-RB Relay base SIGA-RB4 Relay base with trim skirt SIGA-IB Isolator Base SIGA-IB4 Isolator base with 4 inch mounting adaptors SIGA-AB4G Sounder base SIGA-AB4GI Addressable Type A sounder base RoHS model **Accessories:** SIGA-LED Indicator

Certificate No: 904e-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SIGA-PHDI	Intelligent Category A2R Multisensor Photo-Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4, SIGA-IB, SIGA-IB4, SIGI-IBS and SIGA-AB4G bases) Notes: 1) Meets the requirements of EN 54-7:2018 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2) Meets the requirements of EN 54-5 at Category A2R 3) The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904e/02

Bases: SIGI-IBS Isolator base with switch SIGA-SB Standard base SIGA-SB4 Standard base with trim skirt SIGA-RB Relay base SIGA-RB4 Relay base with trim skirt SIGA-IB Isolator Base SIGA-IB4 Isolator base with 4 inch mounting adaptors SIGA-AB4G Sounder base SIGA-AB4GI Addressable Type A sounder base RoHS model **Accessories:** SIGA-LED Indicator

Certificate No: 904k-(cl-1) to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
SIGA-OSDI	Intelligent Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft.	904k/01

Bases

SIGA-SB Standard Base

SIGA-SB4 Standard Base with Trim Skirt

SIGA-IB Isolator Base

SIGA-IB4 Isolator Base with Trim Skirt

SIGA-RB Relay Base

SIGA-RB4 Relay Base with Trim Skirt

Certificate No: 904m-(cl-1) to EN 54-7:2018, EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
SIGI-OSDI	Intelligent Photoelectric Smoke Detector with Short Circuit Isolator	904m/01

	(SIGI-SB base) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft.	

Base

SIGI-SB Standard Base

Certificate No: 904n-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SIGA-OSHDI	Intelligent Multisensor Category A2R Photo-Heat Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. Meets the requirements of EN 54-5 at Heat Category A2R 3. Note: The SIGI-OSHDI is a Smoke-Heat detector where the individual heat detector meets the requirement of EN 54-5 at category A2R and the individual smoke detector meets EN 54-7 at sensitivity setting 1%-3.5%ft, however when used as a combined smoke and heat detector, they can only meet the EN 54-5 and EN 54-7 requirement when installed in an environment of < 93% noncondensing humidity as specified by the manufacturer.	904n/01

Bases

SIGA-SB Standard Base

SIGA-SB4 Standard Base with Trim Skirt

SIGA-IB Isolator Base

SIGA-IB4 Isolator Base with Trim Skirt

SIGA-RB Relay Base

SIGA-RB4 Relay Base with Trim Skirt

Certificate No: 904p-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
SIGI-OSHDI	Intelligent Multisensor Category A2R Photo-Heat Detector with Short Circuit Isolator (SIGI-SB base) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. Meets the requirements of EN 54-5 at Heat Category A2R 3. Note: The SIGI-OSHDI is a Smoke-Heat detector where the individual heat detector meets the requirement of EN 54-5 at category A2R and the individual smoke detector meets EN 54-7 at sensitivity setting 1%-3.5%ft, however when used as a combined smoke and heat detector, they can only meet the EN 54-5 and EN 54-7 requirement when installed in an environment of < 93% noncondensing humidity as specified by the manufacturer.	904p/01

Bases

SIGI-SB Standard Base

Certificate No: 904q-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
SIGA-HFDI	Intelligent Category A2S Fixed Heat Detector	904q/01
	(SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4)	
	Notes:	
	1. Meets the requirements of EN 54-5 at Heat Category A2S	

Bases

SIGA-SB Standard Base

SIGA-SB4 Standard Base with Trim Skirt

SIGA-IB Isolator Base

SIGA-IB4 Isolator Base with Trim Skirt

SIGA-RB Relay Base

SIGA-RB4 Relay Base with Trim Skirt

Watex Pumps Industries

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Tel: +971 552148105
E-mail: info@watexindustries.com • Website: www.watexindustries.com

Certificate No: 1330a-(cl-15) to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
WATEX-BD	Conventional Reflective Beam Detector	1330a/01
	Notes:	
	1. Meets the requirements of EN 54-12 at the following sensitivity settings:	
	- Level 1: 2.6 dB High sensitivity	
	- Level 2: 3.8 dB Medium sensitivity	
	- Level 3: 5.8 dB Low sensitivity	
	2. Suitable for use at the following separation ranges:	
	- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)	
	- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)	
	- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)	
	- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	

es

Mounting Bracket
WATEX-BD-R 1 x Mirror Reflector
WATEX-BD-R 4 x Mirror Reflector

Wizmart Technology Inc.

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Certificate No: 1163g to EN 54-5:2017 + A1:2018

Heat Detectors

Product Name	Description	LPCB Ref. No
NB380-H2	2-Wire Conventional Heat Detector (972913 Base) Note: 1. Meets the requirement of Class A1R	1163g/01
NB380-H2L	2-Wire Conventional Heat Detector with Remote LED Output (972914 Base) Note: 1. Meets the requirement of Class A1R	1163g/02
NB380-H4R	4-Wire Conventional Heat Detector with Relay Output (972915 Base) Note: 1. Meets the requirement of Class A1R	1163g/03
NB380F-H2	2-Wire Conventional Heat Detector (LED Flashes when Quiescent) (972913 Base) Note: 1. Meets the requirement of Class A1R	1163g/04
NB380F-H2L	2-Wire Conventional Heat Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base) Note: 1. Meets the requirement of Class A1R	1163g/05
NB380F-H4R	4-Wire Conventional Heat Detector with Relay Output (LED Flashes when Quiescent) (972915 Base) Note: 1. Meets the requirement of Class A1R	1163g/06

Bases

972913 Low profile 100mm diameter base

972914 Low profile 100mm diameter base with remote LED Connection

972915 Low profile 100mm diameter base 4 wire

Certificate No: 1163h to EN 54-7:2018

Smoke Detectors

Product Name	Description	LPCB Ref. No
NB380-S2	2-Wire Conventional Smoke Detector (972913 Base)	1163h/01
NB380-S2L	2-Wire Conventional Smoke Detector with Remote LED Output (972914 Base)	1163h/02
NB380-S4R	4-Wire Conventional Smoke Detector with Relay Output (972915 Base)	1163h/03
NB380F-S2	2-Wire Conventional Smoke Detector (LED Flashes when Quiescent) (972913 Base)	1163h/04
NB380F-S2L	2-Wire Conventional Smoke Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base)	1163h/05
NB380F-S4R	4-Wire Conventional Smoke Detector with Relay Output (LED Flashes when Quiescent) (972915 Base)	1163h/06

Bases

972913 Low profile 100mm diameter base

972914 Low profile 100mm diameter base with remote LED Connection

972915 Low profile 100mm diameter base 4 wire

Certificate No: 1163j to EN 54-5:2017 + A1:2018 & EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
NB380-SH2	2-Wire Conventional Smoke and Heat Detector (972913 Base) Note: 1. Meets the requirements of Class A2	1163j/01
NB380-SH2L	2-Wire Conventional Smoke and Heat Detector with Remote LED Output (972914 Base) Note: 1. Meets the requirements of Class A2	1163j/02
NB380-SH4R	4-Wire Conventional Smoke and Heat Detector with Relay Output (972915 Base) Note: 1. Meets the requirements of Class A2	1163j/03
NB380F-SH2	2-Wire Conventional Smoke and Heat Detector (LED Flashes when Quiescent) (972913 Base) Note: 1. Meets the requirements of Class A2	1163j/04
NB380F-SH2L	2-Wire Conventional Smoke and Heat Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base) Note: 1. Meets the requirements of Class A2	1163j/05
NB380F-SH4R	4-Wire Conventional Smoke and Heat Detector with Relay Output (LED Flashes when Quiescent) (972915 Base) Note: 1. Meets the requirements of Class A2	1163j/06

Bases

972913 Low profile 100mm diameter base

972914 Low profile 100mm diameter base with remote LED Connection

972915 Low profile 100mm diameter base 4 wire

Certificate No: 1163k to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Product Name	Description	LPCB Ref. No
NB390A-S	Addressable Smoke Detector with Short Circuit Isolator (982913 base)	1163k/01
NB390A-SL	Addressable Smoke Detector with Remote LED Output and Short Circuit Isolator (982914 base)	1163k/02
NB390D-S	Addressable Smoke Detector with DIP Switch and Short Circuit Isolator (982913 base)	1163k/03
NB390D-SL	Addressable Smoke Detector with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base)	1163k/04

Bases

982913 3-Term Low profile 100mm diameter base with SCI

982914 4-Term Low profile 100mm diameter base with SCI

Certificate No: 1163m to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Product Name	Description	LPCB Ref. No

NB390A-HP	Addressable Heat Detector (A2R or A2S) with Short Circuit Isolator (982913 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163m/01
NB390A-HPL	Addressable Heat Detector (A2R or A2S) with Remote LED Output and Short Circuit Isolator (982914 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163m/02
NB390D-HF	Addressable Heat Detector (A2S) with DIP Switch and Short Circuit Isolator (982913 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163m/03
NB390D-HFL	Addressable Heat Detector (A2S) with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163m/04
NB390D-HR	Addressable Heat Detector (A2R) with DIP Switch and Short Circuit Isolator (982913 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163m/05
NB390D-HRL	Addressable Heat Detector (A2R) with DIP Switch, Remote Indicator and Short Circuit Isolator (982914 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163m/06

Bases

982913 3-Term Low profile 100mm diameter base with SCI

982914 4-Term Low profile 100mm diameter base with SCI

Certificate No: 1163n to EN54-5: 2017 + A1: 2018, EN 54-7:2018, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
NB390A-SHP	Addressable Smoke and Heat Detector (A2R or A2S) and Short Circuit Isolator (982913 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163n/01
NB390A-SHPL	Addressable Smoke and Heat Detector (A2S or A2R) with Remote LED Output and Short	1163n/02

	Circuit Isolator (982914 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	
NB390D-SHF	Addressable Smoke and Heat Detector (A2S) with DIP Switch and Short Circuit Isolator (982913 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163n/03
NB390D-SHFL	Addressable Smoke and Heat Detector (A2S) with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163n/04
NB390D-SHR	Addressable Smoke and Heat Detector (A2R) with DIP Switch and Short Circuit Isolator (982913 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163n/05
NB390D-SHRL	Addressable Smoke and Heat Detector (A2R) with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163n/06

Bases

982913 3-Term Low profile 100mm diameter base with SCI

982914 4-Term Low profile 100mm diameter base with SCI

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Certificate No: 305d to EN 54-20: 2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
VESDA VLF-250-xx (VLF-250-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays)	305d/01

	Notes: *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07208).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.* *7. Alternative model number with suffix* as indicated, intended for French market.* *8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.*	
VESDA VLF-250-xx (VLF-250-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07208).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.* *7. Alternative model number with suffix* as indicated, intended for French market.* *8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.*	305d/06
VESDA VLF-500-xx (VLF-500-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.*	305d/02

	3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07209). *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.* *7. Alternative model number with suffix* as indicated, intended for French market.* *8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.*	
VESDA VLF-500-xx (VLF-500-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07209).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. xx denotes alternative language version where xx (range 00 to 99)designates the language of the product labels.* *7. Alternative model number with suffix* as indicated, intended for French market.* *8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.*	305d/07
VESDA VLC High sensitivity aspirating smoke detector	Approved configurations: - VLC-500 (VLF-50000-NF*) VLC Relays only (RO) version - VLC-505 (VLF-50500-NF*) VLC VESDAnet (VN) version - VLC-400 (VLF-400-NF*) VLC Apollo (AP) version - VLC-700 (801519.F0*) VLC Esser (EB) version - VLC-800 (VLF-800-NF*) VLC Tyco (MX) version Approved remote units with the VLC-505 VESDAnet (VN) version: - VRT-J00 Remote VLC display (with 7 relays) - VRT-K00 Remote VLC display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.*	305d/03

	3. System design, installation and commissioning shall be performed in accordance with the VESDA VLC product guides (10280 [VLC-500 & VLC-505], 03494 [VLC-400], 09411 [VLC-700], 09515 [VLC-800]). *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* *7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed*	
VESDA VLP High sensitivity aspirating smoke detector	Approved Configurations: VLP-012 (VLP-01200-NF*) VLP detector with Display & Programmer VLP-002 (VLP-00200-NF*) VLP detector with Display VLP-400 (VLP-00000-NF*) VLP detector with Fire/OK LEDs only VLP-401 (VLP-00100-NF*) VLP detector with Programmer & Fire/OK LEDs VLP-100 VLP detector with OEM cover Approved remote units: VRT-100 Remote Programmer VRT-200 Remote VLP Display unit (with 7 relays) VRT-300 VESDAnet socket VRT-500 Remote Relay unit (with 7 relays) VRT-600 Remote VLP Display unit (without relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLP product guide (10278).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* *7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.*	305d/04
VESDA VLS High sensitivity aspirating smoke detector	Approved Configurations: VLS-600 (VLS-20000-NF*) VLS with 7 relays and Fire/OK LEDs VLS-204 (VLS-20400-NF*) VLS with 7 Relays and Display Module VLS-214 (VLS-21400-NF*) VLS with 7 Relays, Display and Program Module VLS-700 (VLS-30000-NF*) VLS with 12 relays and Fire/OK LEDs VLS-304 (VLS-30400-NF*) VLS with 12 Relays and Display Module VLS-314 (VLS-31400-NF*) VLS with 12 Relays, Display and Program Module VLS-100 VLS with 7 Relays and OEM cover VLS-500 VLS with 12 Relays and OEM cover Approved Remote Units: VRT-400 Remote Scanner Display with 7 relays VRT-700 Remote Scanner Display with no relays VRT-800 Remote Scanner Display with 12 relays	305d/05

VRT-900 Remote Scanner Relays -12 relays

VRT-E00 Remote Scanner Relays - 7 relays

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.

2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.

3. System design, installation and commissioning shall be performed in accordance with the VESDA VLS product guide (10279).

4. Remote display, programmer and relay modules are also approved in a 19 sub rack.

5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).

6. Alternative model numbers with suffix as indicated, intended for French market.*

7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed

Accessories:

E700-FILASSY In line filter

VSP-850 In line filter

Certificate No: 305e to EN 54-20: 2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
XCC-010 (XCC-01000-NF)	Xtralis Class C aspirating smoke detector **Notes:** 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-010 product guide (Document 14159). 3. The device is approved for sensitivity Class C. 4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785). 5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed. 6. XCC-01000-NF alternative model number intended for French market.	305e/01
XCC-011 (XCC-01100-NF)	Xtralis Class C aspirating smoke detector **Notes:** 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-011 product guide (Document 19137). 3. The device is approved for sensitivity Class C. 4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA	305e/03

application guide (10856 or 17785).

5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.

6. XCC-01100-NF alternative model number intended for French market.

Accessories:

E700-FILASSY In line filter

VSP-850 In line filter

Certificate No: 305g to EN 54-20: 2006

Aspirating Smoke Detectors

Product Name	Description	LPCB Ref. No
VLI-880	(VLI-88000-NF) VESDA Laser Industrial aspirating smoke detector Incorporating the following ancillary equipment: - VRT-Q00 Remote VLI display (with 7 relays) - VRT-T00 Remote VLI display (no relays) - VRT-500 Remote relay unit (with 7 relays) **Notes:** 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2. 3. System design, installation and commissioning shall be performed in accordance with the VESDA VLI product guide (18500). 4. Remote display, programmer and relay modules are also approved in a 19 sub rack. 5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785). 6. VLI-88000-NF is the alternative model number intended for French market. 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305g/01
VLI-885	(VLI-88500-NF) VESDA Laser Industrial aspirating smoke detector with VESDAnet card Incorporating the following ancillary equipment: - VRT-Q00 Remote VLI display (with 7 relays) - VRT-T00 Remote VLI display (no relays) - VRT-500 Remote relay unit (with 7 relays) **Notes:** 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2. 3. System design, installation and commissioning shall be performed in accordance with the VESDA VLI product guide (18500). 4. Remote display, programmer and relay modules are also approved in a 19 sub rack. 5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).	305g/02

6. VLI-88500-NF alternative model number intended for French market.

7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.

Accessories:

E700-FILASSY In line filter

VSP-850 In line filter

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Certificate No: 1450c to EN54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
JTY-GM-TC5161	Addressable Photoelectric Smoke Detector (TCDZ5000 Base)	1450c/01

Base

TCDZ5000 Standard Base

Certificate No: 1450d to EN 54-5:2017+ A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
JTW-ZOM-TC5162	Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector (TCDZ5000 Base)	1450d/01

Certificate No: 1450j to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
JTF-GOM-TC5163	Addressable Smoke and Heat Multi Detector (Standard Base) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R 2. Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Standard Base

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Certificate No: 330n to EN54-7: 2018

Point Smoke Detectors

Product Name	Description	LPCB Ref. No
MKII-OP	Fyreye II Conventional optical smoke detector	330n/01

	(FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-7 at Smoke Sensitivity setting Range:0.08%dB~ 0.12%dB	
MKII-AOP	Fyreye II Addressable optical smoke detector *(MKII-CB/D base and MKII-CB base)* Note: 1) Meets the requirements of EN 54-7 at Smoke Sensitivity setting Range:0.09%dB~ 0.11%dB	330n/02

Bases:

80-050 FE CB Common mounting base

80-052 FE DB Diode mounting base

80-054 FE RB Relay mounting base

80-080 FEA RB Addressable relay mounting base

80-090 FE IB Negative switching isolating base

FE-CB/D deep base

FE-CB/S shallow base

FE-CB standard base

Certificate No: 330p to EN54-5: 2018 + A1: 2018, EN54-7: 2018, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Product Name	Description	LPCB Ref. No
MKII-OH	Fyreye II Conventional optical and heat detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-7 at Smoke Sensitivity setting Range:0.08%dB~ 0.12%dB 2. Meets the requirements of EN 54-5 at Class A2	330p/01
MKII-AOH	Fyreye II Addressable optical and heat detector *(MKII-CB/D base and MKII-CB base)* Notes: 1) Meets the requirements of EN 54-7 at Smoke Sensitivity setting Range:0.09%dB~ 0.12%dB 2) Meets the requirements of EN 54-5 at Category A1	330p/02

Bases

FE-CB/D deep base

FE-CB/S shallow base

FE-CB standard base

Certificate No: 330q to EN54-5: 2017 + A1: 2018

Point Heat Detectors

Product Name	Description	LPCB Ref. No
MKII-HF	Fyreye II Conventional A2S heat detector (FE-CB/D base, FE-CB/S base and FE-CB base)	330q/01

	Note: 1. Meets the requirements of EN 54-5 at Category A2S	
MKII-HR	Fyreye II Conventional A2R heat detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	330q/02
MKII-AHF	Fyreye II Addressable A2S heat detector *(MKII-CB/D base and MKII-CB base)* Note: 1) Meets the requirements of EN 54-5 at Category A2S	330q/03
MKII-AHR	Fyreye II Addressable A1R heat detector *(MKII-CB/D base and MKII-CB base)* Note: 1) Meets the requirements of EN 54-5 at Category A1R	330q/04
MKII-AHF/CS90	Fyreye MKII Addressable Fixed Heat Detector 90 Degrees (MKII-CB/D Base and MKII-CB Base) Note: 1. Meets the requirements of EN 54-5 at Category CS	330q/05
MKII-HF/CS90	Fyreye MKII Conventional Fixed Heat Detector 90 Degrees (MKII-CB/D Base and MKII-CB Base) Note: 1. Meets the requirements of EN 54-5 at Category CS	330q/06

Bases:

80-050 FE CB Common mounting base

80-052 FE DB Diode mounting base

80-054 FE RB Relay mounting base

80-080 FEA RB Addressable relay mounting base

80-090 FE IB Negative switching isolating base

FE-CB/D deep base

FE-CB/S shallow base

FE-CB standard base

MKII-CB/D Deep base

MKII-CB Shallow base

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Certificate No: 1330a-(cl-7) to EN 54-12: 2015

Beam Detectors

Product Name	Description	LPCB Ref. No
AW-BK901	Conventional Reflective Beam Detector (Asenware)	1330a/01

Notes:

1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:

- Level 1: 2.6 dB High sensitivity

- Level 2: 3.8 dB Medium sensitivity

- Level 3: 5.8 dB Low sensitivity

2. Suitable for use at the following separation ranges:

- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)

- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)

- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)

- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

Mounting Bracket

AW-BK901-R 1 x Mirror Reflector

AW-BK901-R 4 x Mirror Reflector

Certificate No: 1395a to EN 54-7:2018

Product Name	Description	LPCB Ref. No
AW-CSD381	Conventional Photo-electronic Smoke Detector (AW-BS01) Meets the requirements of EN 54-7 for 1 sensitivity setting	1395a/01

Base

AW-BS01

Certificate No: 1395b to EN 54-5: 2017+ A1: 2018

Heat Detectors

Product Name	Description	LPCB Ref. No
AW-CTD382	Conventional Rate of Rise Heat Detector Notes: Meets the requirements of EN 54-5 for Category A2R	1395b/01

AW-BS01 - base

Control and Indicating Equipment (CIE) is a component of a fire detection and alarm system through which other components may be connected to it such as detectors, manual call points, sounders, routing equipment, voice alarm equipment and fire protection equipment. It is supplied with power from power supply equipment which may be housed within the CIE enclosure or a separate enclosure.

CIE is used to receive and send out signals that are related to fire. CIE also monitors the system for faults (short and open circuit or power supply faults) and indicates the status of the fire detection and alarm system.

CIE designed to meet a European standard such as EN 54-2 or international standard such as ISO 7240-2 has certain options with requirements. For example, it may be designed to provide a signal to fire protection equipment or have dependencies on more than one alarm signal. Some CIEs have other functions which are not specified in the standard. These additional features are normally assessed such that they do not jeopardise compliance.

The choice of CIE is dependent on the specific applications as recommended in the application guidelines for a specific job or building.

Some CIEs have associated repeaters or mimic panels. These are normally used to repeat the indications given on the main CIE and sometimes they have control functions such as silencing sounders. There are no published standards that these repeaters or mimics can be tested against.

Voice Alarm Control and Indicating Equipment (VACIE) is a component of the fire alarm system which receives signals from the CIE or via manual control in order to activate messages via loudspeakers. VACIE may also include emergency microphone to broadcast live messages. The approval processes for this type of equipment is outlined in scheme document SD040.

This section lists Control and Indicating Equipment, Voice Alarm Control and Indicating Equipment approved for use in fire detection and fire alarm systems in buildings. Repeaters or mimics and power supply equipment listed in this section are only approved with their associated CIE and are subjected to the same environmental tests as the CIE. The approval processes for this type of equipment is outlined in scheme document SD040.

Products listed in this section have been approved to:

- EN 54-2 *Control and Indicating Equipment;*
- EN 54-4 *Power supply equipment;*
- ISO 7240-2 *Control and Indicating Equipment*;
- ISO 7240-4 *Power supply equipment;*
- EN 54-16 *Voice Alarm Control and Indicating Equipment.*

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. Since LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.
2. Where the Control and Indicating Equipment is of modular construction, and the use of certain modules (or printed circuit boards PCBs) is optional, these are listed with the applicable equipment.

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Certificate No: 1426g-(cl-5) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-1L	Single Loop Analogue Addressable Control and Indicating Equipment (Branded as Pyronics)	1426g/01
	Incorporating the following modules:	
	CHA-2L_IO IO Board	

	CHA-2L_B Monitoring Board (B Board) CHA-2L_A Main CPU Board (A Board) CHA-2L_PS Power Supply CHA-2L_IB Zone Indication Board CHA-2L_KB Keyboard CHA-2L_LP Loop SPU Board Incorporating the following optional modules: CHA-2L_COM Communication Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Scope of approval does not include the operation of the network functionality.	
PYR-FA-CHA-ML	Single Loop Analogue Addressable Control and Indicating Equipment (Branded as Pyronics) Incorporating the following modules: CHA-ML_CB Main Control Board CHA-ML_IO IO Board CHA-ML_PMC Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	1426g/02

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Certificate No: 544b to EN54-2: 1997+A1:2006 EN54-4: 1997+A1-2002+A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
QuickZone	2 and 4 Zone Conventional Control and Indicating Equipment	544b/01

	QuickZone 2 (QZ-2) Incorporating as modular units: TPC A01 QuickZone 2 (QZ-2) main PCB applicable on 2 zone CIE only TPC A02 QuickZone LED display PCB PSM1.5 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition QuickZone 4 (QZ-4) Incorporating as modular units: TPC A01 Quick Zone 4 (QZ-4) main PCB applicable on 4 zone CIE only TPC A02 QuickZone LED display PCB PSM1.5 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
QuickZone XL	4, 8 and 12 Zone conventional control and indicating equipment QuickZoneXL 4 Conventional Control Panel (QZXL-4) Incorporating as modular units: TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board PSM3.0 24 Power Supply QuickZoneXL 8 Conventional Control Panel (QZXL-8) Incorporating as modular units: TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-ZEC QuickZoneXL Standard 4 Zone Extension Board PSM3.0 24 Power Supply QuickZoneXL 8 Conventional Control Panel (QZXL-8HS) Incorporating as modular units: TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-HSZEC QuickZoneXL High Spec 4 Zone Extension Board PSM3.0 24 Power Supply QuickZoneXL 12 Conventional Control Panel (QZXL-12) TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXLDisplay Board QZXL-ZEO QuickZoneXL Standard 4 Zone Extension Board QZXL-ZEC QuickZoneXL High Spec 4 Zone Extension Board	544b/02

	PSM3.0 24 Power Supply QuickZoneXL 12 Zone Conventional Control Panel (QZXL-12HS) TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-HSZEC Two QuickZoneXL Standard 4 Zone Extension Board PSM3.0 24 Power Supply Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
QuickZone XL 16-32	16, 24 and 32 Zone Conventional Control and Indicating Equipment QuickZone XL16 (QZXL-16) 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board QuickZone XL24 (QZXL-24) 24 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board QuickZone XL32 (QZXL-32) 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB	544b/03

TPCA12 Power supply PCB

and as optional modules

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder Card PCB

TPCA08 Output Card PCB

TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependence on more than one alarm signal (Type A)

7.12.2 Dependence on more than one alarm signal (Type B)

7.12.3 Dependence on more than one alarm signal (Type C)

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Certificate No: 1330h-(cl-8) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
FL-4001	1 Loop Intelligent Addressable Control and Indicating Equipment	1330h/01
	Incorporating the following modules:	
	7010200004 Mother Board	
	7020100022 Main Board	
	7010700017 Loop Board	
	7010400011 Power Management Board	
	7010600019 Communication Board	
	7010400012 Power Wiring Board	
	PDF-150-27.5 Power Supply Unit	
	7021300007 Keyboard	
	7020800009 Led Board	
	7010300010 Regional Display Board	
	814400002 Printer Module	

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

FL-4002 2 Loop Intelligent Addressable Control and Indicating Equipment 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

FL-4004

4 Loop Intelligent Addressable Control and Indicating Equipment

1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

Notes:
The scope of the approval does not include the operation of the network functionality.
2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

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Certificate No: 1174e-(cl-6) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SC-6831/16	16 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/01
SC-6831/8	8 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/02
SC-6831/4	4 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/03

SC-6831/2	2 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/04

Certificate No: 1174j-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SI-6847	4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board VSL7-820-150 Zone Board VSL7-820-154 Network Card LRS-150-24 MEAN-WELL Power Supply module Certified with the following option with requirements for EN54-2: 7.8 Output to fire alarm devices 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm Counter 9.5 Disablement of addressable point 10 Test condition Notes: 1. The scope of the approval does not include the operation of the network functionality	1174j/01

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

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Certificate No: 966a to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
LoopSense 8281-0105	One loop, 32 Zone analogue addressable control and indicating equipment. Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition **Note:** 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	966a/01
LoopSense 8281-0205	Two loop, 32 Zone analogue addressable control and indicating equipment. Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit 8210-0001 2nd loop activation Key BRD82LSD Loop Activation Board ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices	966a/02

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal Type A

7.12.2 Dependencies on more than one alarm signal Type B

7.12.3 Dependencies on more than one alarm signal Type C

8.3 Fault signal from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each addressable point

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 966b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SP1M FireFinder Plus	1-4 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment (with Apollo Protocol) Incorporating as modular units: BRD86BPSC4-B FFP Brigade & Power supply control board (8610) BRD86DLTB4-C FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Slave CPU card (8610) PSU1888 Power supply 5A (8610) Incorporating as optional modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test Condition Notes:	966b/01

	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Available in marketing model/part numbers 8681-0108, 8681-0208, 8681-0308 & 8681-0408.	
SP1X FireFinder Plus	1-4 Loop, Analogue Addressable Control and Indicating Equipment (with Apollo Protocol) Incorporating the following modular units: BRD86BPSC4-B FFP Brigade & Power supply control board (8610) BRD86DLTB4-C FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) PSU1888 Power supply 5A Slim RS-150-27 (8610) Incorporating as optional modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) BRD86SCB3-A FFP Slave CPU card (8610) BRD86NIC1-A FFP Network Interface Card BRD43HLI3-A High Level Interface Card Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Available in marketing model/part numbers 8681-0110, 8681-0210, 8681-0310 & 8681-0410.	966b/05
SP8X FireFinder Plus	1-8 Loop, 64 Zone 5A Analogue Addressable Control and Indicating Equipment (with Apollo Protocol) Incorporating the following modular units: BRD86BPSC4-B FFP Bridge and power supply control board (8610) BRD86DLTB4-C FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) PSU1888 Power supply 5A slim RS-150-27 (8610) BRD86FEPB3-A FFP Expansion panel board (8610) - Required in the 5 to 8 Loop CIEs	966b/09

Incorporating as optional modules:

BRD43EZC2-A 8 Zone conventional module (4310)

BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

BRD86SCB3-A FFP Slave CPU card (8610)

BRD86NIC1-A FFP Network Interface Card

BRD43HLI3-A High Level Interface Card

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routine equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

8.3 Fault signal from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each addressable point

10 Test Condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

2. Available in marketing model/part numbers 8681-0113, 8681-0213, 8681-0313, 8681-0413, 8681-0513, 8681-0613, 8681-0713 & 8681-0813.

Certificate No: 966c to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006, EN 54-4:1997 + A1:2002 + A2:2006, EN 54-16:2008

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
13U EvacU Elite	Wall Mounted Voice Alarm Control and Indicating Equipment (VACIE)	966c/01
	Incorporating the following mandatory modules:	
	BRD63PDB1-A Power Distribution Board	
	BRD63ABB1-A Amplifier Backplane Board	
	BRD63CPU1-A Distribution CPU	
	BRD63 GUI1-A Graphical User Interface Primary	
	ASS63CPU-NET EvacU Elite CPU Network incorporating:	
	BRD63NIC1-A Network Interface Card	
	ASS63PSU12M Primary Power Supply incorporating	
	BRD63PCC1-A Power Control Card - Primary	
	RCB-1600-24 Meanwell Power Supply	
	Network SFP Modules	
	OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"	
	OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"	

Incorporating the following optional modules:

BRD63ILC1-A Quad Radial Line Card

BRD63LILC1-A Dual Loop Line Card

BRD63LPA1-A Dual 25W Amplifier

BRD63LPA1-B 50W Amplifier

BRD63MIC1-A Multi-Purpose Interface Card

BRD63MOC1-A Multi-Purpose Output Card

BRD63GUI1-B Graphical User Interface Secondary

ASS63PSU12S Secondary Power Supply incorporating

BRD63PCC1-B Power Control Card - Secondary

RCB-1600-24 Meanwell Power Supply

ASS63HPA High Power Amplifier 150W incorporating:

BRD63HDC1-A HPA DC-DC Converter Board

BRD63HPA1-A High Power Amplifier Board

Certified with the following options with requirements from EN 54-16:

7.3 Audible warning

7.4 Delays to entering the voice alarm condition

7.5 Phased evacuation

7.6.2 Manual silencing of the voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.8 Output to fire alarm devices

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

9 Disabled condition

10 Voice alarm manual control

12 Emergency microphone(s)

Notes:

1. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.

2. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.

24U EvacU Elite	Floor Mounted Voice Alarm Control and Indicating Equipment (VACIE)	966c/02

Incorporating the following mandatory modules:

BRD63PDB1-A Power Distribution Board

BRD63ABB1-A Amplifier Backplane Board

BRD63CPU1-A Distribution CPU

BRD63GUI1-A Graphical User Interface Primary

ASS63CPU-NET EvacU Elite CPU Network incorporating

BRD63NIC1-A Network Interface Card

ASS63PSU12M Primary Power Supply incorporating

BRD63PCC1-A Power Control Card - Primary

RCB-1600 -24 Meanwell Power Supply

Network SFP Modules

OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"

OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"

Incorporating the following optional modules:

BRD63ILC1-A Quad Radial Line Card

BRD63LILC1-A Dual Loop Line Card

BRD63LPA1-A Dual 25W Amplifier

BRD63LPA1-B 50W Amplifier

BRD63MIC1-A Multi-Purpose Interface Card

BRD63MOC1-A Multi-Purpose Output Card

BRD63GUI1-B Graphical User Interface Secondary

ASS63PSU12S Secondary Power Supply incorporating

BRD63PCC1-B Power Control Card - Secondary

RCB-1600-24 Meanwell Power Supply

ASS63HPA High Power Amplifier 150W incorporating:

BRD63HDC1-A HPA DC-DC Converter Board

BRD63HPA1-A High Power Amplifier Board

Certified with the following options with requirements from EN 54-16:

7.3 Audible warning

7.4 Delays to entering the voice alarm condition

7.5 Phased evacuation

7.6.2 Manual silencing of the voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.8 Output to fire alarm devices

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

9 Disabled condition

10 Voice alarm manual control

12 Emergency microphone(s)

Notes:

1. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.

2. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.

Notes:
The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.

2. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.

Certificate No: 966d to AS4428.16:2020, AS7240.4:2018, AS4428.4:2016

Control and indicating equipment

Product Name	Description	LPCB Ref. No
13U EvacU Elite	Wall Mounted Emergency Warning Control and Indicating Equipment (EWCIE) and Emergency Intercom Control and Indicating Equipment (EICIE) (Grade 1) Incorporating the following mandatory modules: BRD63PDB1-A Power Distribution Board BRD63ABB1-A Amplifier Backplane Board BRD63CPU1-A Distribution CPU BRD63GUI1-A Graphical User Interface Primary ASS63CPU-NET EvacU Elite CPU Network incorporating: BRD63NIC1-A Network Interface Card ASS63PSU12M Primary Power Supply incorporating: BRD63PCC1-A Power Control Card - Primary RCB-1600-24 Meanwell Power Supply Network SFP Modules: OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER" OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER" Incorporating the following optional modules: BRD63ILC1-A Quad Radial Line Card BRD63LILC1-A Dual Loop Line Card BRD63LPA1-A Dual 25W Amplifier BRD63LPA1-B 50W Amplifier BRD63MIC1-A Multi-Purpose Interface Card BRD63MOC1-A Multi-Purpose Output Card BRD63GUI1-B Graphical User Interface Secondary ASS63WIPM Primary Warden Intercom Phone ASS63PSU12S Secondary Power Supply incorporating BRD63PCC1-B Power Control Card - Secondary RCB-1600-24 Meanwell Power Supply	966d/01

Certified with the following options with requirements from AS4428.16:2020:

7.2 Indication of alarm signals

7.3 Alert signal

7.6 Audible indication of alarm signal reception

7.7 Delays before entering the emergency warning condition

7.8 Phased Evacuation with Multi-Zone System

7.9.2 Silencing of the emergency warning condition with a manual control

7.10.2 Reset of emergency warning condition with a manual condition

7.11 Output to Warning devices

7.12 Emergency warning condition output signal

9 Disabled condition

10 Test Condition

11 Automatic/Manual Mode

11.2 Manual Control of Networked EWCIE

12.1 Individual emergency zone controls

12.2 All emergency zone controls

14 Emergency Microphone 14.2 Ready-to-Talk Indicator

18.9 Dry heat, steady state test (operational) 50°±2°C

Certified with the following options with requirements from AS7240.4:2018:

6.8 Impact (operational)

6.9 Vibration, sinusoidal (operational)

6.12 Vibration, sinusoidal (endurance)

6.13 Dry heat (operational) 50°±2°C

Certified with the following options with requirements from AS4428.4:2016:

8.8 External silencing of the EICIE Fault Condition

9 Zone cleared condition

10 Manual control of networked EICIE

11.2 WIP group call control

16.6 Dry heat, steady state test (operational) 50 °± 2 ° C

Notes:

1. The Emergency warning control and indicating equipment (EWCIE) meets grade 1. The EWCIE is capable of meeting certain optional functions but for grade 1, these must not be enabled.

2. The ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the EICIE as ancillary equipment to verify the functionality only. These modules were not subjected to the environmental and EMC tests.

3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.

24U EvacU Elite	Floor Mounted Emergency Warning Control and Indicating Equipment (EWCIE) and Emergency Intercom Control and Indicating Equipment (EICIE) (Grade 1) Incorporating the following mandatory modules: BRD63PDB1-A Power Distribution Board BRD63ABB1-A Amplifier Backplane Board BRD63CPU1-A Distribution CPU	966d/02

BRD63GUI1-A Graphical User Interface Primary

ASS63CPU-NET EvacU Elite CPU Network incorporating:

BRD63NIC1-A Network Interface Card

ASS63PSU12M Primary Power Supply incorporating

BRD63PCC1-A Power Control Card - Primary

RCB-1600-24 Meanwell Power Supply

Network SFP Modules

OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"

OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"

Incorporating the following optional modules:

BRD63ILC1-A Quad Radial Line Card

BRD63LILC1-A Dual Loop Line Card

BRD63LPA1-A Dual 25W Amplifier

BRD63LPA1-B 50W Amplifier

BRD63MIC1-A Multi-Purpose Interface Card

BRD63MOC1-A Multi-Purpose Output Card

BRD63GUI1-B Graphical User Interface Secondary

ASS63WIPM Primary Warden Intercom Phone

ASS63PSU12S Secondary Power Supply incorporating

BRD63PCC1-B Power Control Card - Secondary

RCB-1600-24 Meanwell Power Supply

Certified with the following options with requirements from AS4428.16:2020:

7.2 Indication of alarm signals

7.3 Alert signal

7.6 Audible indication of alarm signal reception

7.7 Delays before entering the emergency warning condition

7.8 Phased Evacuation with Multi-Zone System

7.9.2 Silencing of the emergency warning condition with a manual control

7.10.2 Reset of emergency warning condition with a manual condition

7.11 Output to Warning devices

7.12 Emergency warning condition output signal

9 Disabled condition

10 Test Condition

11 Automatic/Manual Mode

11.2 Manual Control of Networked EWCIE

12.1 Individual emergency zone controls

12.2 All emergency zone controls

14 Emergency Microphone 14.2 Ready-to-Talk Indicator

18.9 Dry heat, steady state test (operational) 50°±2°C

Certified with the following options with requirements from AS7240.4:2018:

6.8 Impact (operational)

6.9 Vibration, sinusoidal (operational)

6.12 Vibration, sinusoidal (endurance)

6.13 Dry heat (operational) 50°±2°C

Certified with the following options with requirements from AS4428.4:2016:

8.8 External silencing of the EICIE Fault Condition

9 Zone cleared condition

10 Manual control of networked EICIE

11.2 WIP group call control

16.6 Dry heat, steady state test (operational) 50 °± 2 ° C

Notes:

1. The Emergency warning control and indicating equipment (EWCIE) meets grade 1. The EWCIE is capable of meeting certain optional functions but for grade 1, these must not be enabled.

2. The ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the EICIE as ancillary equipment to verify the functionality only. These modules were not subjected to the environmental and EMC tests.

3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.

Certificate No: 966e to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006, EN54-16:2008

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
13U Combined System	Wall Mounted Combined 1 to 4 Loop Control and Indicating Equipment (CIE) and Voice Alarm Control and Indicating Equipment (VACIE) with Apollo Protocol	966e/01

Incorporating as modular units:

BRD63CPU1-A Distribution CPU

BRD63GUI1-A Graphical User Interface Primary

BRD63ABB1-A All Purpose Backplane Board

BRD43CPI1-A CAN PSU Interface Board

BRD63MIC1-A Multi-Purpose Interface Card

BRD86FPB5-B FFP Front Panel Board

BRD86MBA4-A FFP Main Board N-C LCD

BRD86MCPU4-B FFP Main CPU 64MB CPU Card

BRD86BPSC4-B FFP Brigade & Power Supply Control Board

BRD86DLTB4-C FFP Dual Loop Termination Board

BRD43ZAMC2-A 32 Zone Alarm Mimic Card Internal

BRD63PDB1-A Power Distribution Board

ASS63PSU12M Primary Power Supply incorporating:

BRD63PCC1-A Power Control Card - Primary

RCB-1600-24 Meanwell Power Supply 1600W (Third

Incorporating as optional modules:
BRD63GUI1-B Graphical User Interface Secondary
BRD63ILC1-A Quad Radial Line Card
BRD63LILC1-A Dual Loop Line Card

BRD63MOC1-A Multi-Purpose Output Card

BRD63LPA1-A Dual 25W Amplifier

BRD63LPA1-B 50W Amplifier

BRD86SCB3-A FFP SLAVE CPU CARD

ASS63CPU-NET EvacU Elite CPU Network incorporating:

BRD63NIC1-A Network Interface Card

Network SFP Modules

OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"

OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"

ASS63HPA High Power Amplifier 150W incorporating:
BRD63HDC1-A HPA DC-DC Converter Board

BRD63HPA1-A High Power Amplifier Board

Certified with the following options with requirements from EN 54-16:

7.3 Audible warning

7.4 Delays to entering the voice alarm condition

7.5 Phased evacuation

7.6.2 Manual silencing of the voice alarm condition

7.8 Output to fire alarm devices

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

9 Disabled condition

10 Voice alarm manual control

12 Emergency microphones

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and Fire alarm system requirements of EN54-13.

2. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.

3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM)were functionally tested but were not subjected to the environmental and EMC tests.

24U Combined System

Floor Mounted Combined 1 to 8 Loop Control and Indicating Equipment (CIE) and Voice Alarm Control and Indicating Equipment (VACIE) with Apollo Protocol 966/02

Incorporating as modular units:

BRD63CPU1-A Distribution CPU

BRD63GUI1-A Graphical User Interface Primary

BRD63ABB1-A All Purpose Backplane Board

BRD43CPI1-A CAN PSU Interface Board

BRD63MIC1-A Multi-Purpose Interface Card

BRD86FPB5-B FFP Front Panel Board

BRD86MBA4-A FFP Main Board N-C LCD

BRD86MCPU4-B FFP Main CPU 64MB CPU Card

BRD86BPSC4-B FFP Brigade & Power Supply Control Board

BRD86DLTB4-C FFP Dual Loop Termination Board

BRD43ZAMC2-A 32 Zone Alarm Mimic Card Internal

BRD63PDB1-A Power Distribution Board

ASS63PSU12M Primary Power Supply incorporating:

BRD63PCC1-A Power Control Card - Primary

RCB-1600-24 Meanwell Power Supply 1600W (Third Party)

Incorporating as optional modules:

BRD63GUI1-B Graphical User Interface Secondary

BRD63ILC1-A Quad Radial Line Card

BRD63LILC1-A Dual Loop Line Card

BRD63MOC1-A Multi-Purpose Output Card

BRD63LPA1-A Dual 25W Amplifier

BRD63LPA1-B 50W Amplifier

BRD86SCB3-A FFP SLAVE CPU CARD

BRD86FEPB3-A FFP Expansion Panel Board

ASS63CPU-NET EvacU Elite CPU Network incorporating:

BRD63NIC1-A Network Interface Card

Network SFP Modules

OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"

OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"

ASS63PSU12S Secondary Power Supply incorporating:

BRD63PCC1-B Power Control Card - Secondary

RCB-1600-24 Meanwell Power Supply

ASS63HPA High Power Amplifier 150W incorporating:
BRD63HDC1-A HPA DC-DC Converter Board

BRD63HPA1-A High Power Amplifier Board

Certified with the following options with requirements from EN 54-16:

7.3 Audible warning

7.4 Delays to entering the voice alarm condition

7.5 Phased evacuation

7.6.2 Manual silencing of the voice alarm condition

7.8 Output to fire alarm devices

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

9 Disabled condition

10 Voice alarm manual control

12 Emergency microphones

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

2. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.

3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) werefunctionally tested but were not subjected to the environmental and EMCtests.

16U Combined System	Wall Mounted Combined 1 to 4 Loop Control and Indicating Equipment (CIE) and Voice Alarm Control and Indicating Equipment (VACIE) with Apollo Protocol	966e/03

Incorporating as modular units:

BRD63CPU1-A Distribution CPU

BRD63GUI1-A Graphical User Interface Primary

BRD63ABB1-A All Purpose Backplane Board

BRD43CPI1-A CAN PSU Interface Board

BRD63MIC1-A Multi-Purpose Interface Card

BRD86FPB5-B FFP Front Panel Board

BRD86MBA4-A FFP Main Board N-C LCD

BRD86MCPU4-B FFP Main CPU 64MB CPU Card

BRD86BPSC4-B FFP Brigade & Power Supply Control Board

BRD86DLTB4-C FFP Dual Loop Termination Board

BRD43ZAMC2-A 32 Zone Alarm Mimic Card Internal

BRD63PDB1-A Power Distribution Board

ASS63PSU12M Primary Power Supply incorporating:

BRD63PCC1-A Power Control Card - Primary

RCB-1600-24 Meanwell Power Supply 1600W (Third Party)

Incorporating as optional modules:
BRD63GUI1-B Graphical User Interface Secondary
BRD63ILC1-A Quad Radial Line Card
BRD63LILC1-A Dual Loop Line Card

BRD63MOC1-A Multi-Purpose Output Card

BRD63LPA1-A Dual 25W Amplifier

BRD63LPA1-B 50W Amplifier

BRD86SCB3-A FFP SLAVE CPU CARD

ASS63CPU-NET EvacU Elite CPU Network incorporating:

BRD63NIC1-A Network Interface Card

Network SFP Modules

OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"

OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"

ASS63PSU12S Secondary Power Supply incorporating:

BRD63PCC1-B Power Control Card - Secondary

RCB-1600-24 Meanwell Power Supply

ASS63HPA High Power Amplifier 150W incorporating:
BRD63HDC1-A HPA DC-DC Converter Board

BRD63HPA1-A High Power Amplifier Board

Certified with the following options with requirements from EN 54-16

7.3 Audible warning

7.4 Delays to entering the voice alarm condition

7.5 Phased evacuation

7.6.2 Manual silencing of the voice alarm condition

7.8 Output to fire alarm devices

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

9 Disabled condition

10 Voice alarm manual control

12 Emergency microphones

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

2. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.

3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.

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Control and indicating equipment

Product Name	Description	LPCB Ref. No
AW-FP300	Single Loop Analogue Addressable Fire Alarm Control Panel Incorporating the following modules: SEC3002_IO IO Board SEC3002_B Monitoring Board (B Board) ZB-9100-A Main CPU Board (A Board) PSE10_KZ Power Supply SEC3002_QK Zone Indication Board SEC3002_KEY Key Board SEC3002_FL1 Loop SPU Board Incorporating the following optional modules: SEC3002_COM Communication Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Scope of approval does not include the operation of the network functionality.	1426g/01
AW-FP312	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	1426g/02

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Certificate No: 1174e to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
VC-6831/16	16 Zone Conventional control and indicating equipment	1174e/01
	Incorporating the following units:	
	VSL2.908.004 16 Zone Control Board	
	VSL2.908.007 16 Zone Display Board	
	PD-100-24 AC/DC Power Supply Module	
	VSL2.908.005 16 Zone Signal Output Board	
	Certified with the following Options with requirements from EN 54-2:1997	
	7.8 Output to fire alarm device(s)	
	7.11 Delay to outputs	
	10 Test condition	
	Note:	
	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
VC-6831/8	8 Zone Conventional control and indicating equipment	1174e/02
	Incorporating the following units:	
	VSL2.908.042 8 Zone Control Board	
	VSL2.908.043 8 Zone Display Board	
	PD-100-24 AC/DC Power Supply Module	
	Certified with the following Options with requirements from EN 54-2:1997	
	7.8 Output to fire alarm device(s)	
	7.11 Delay to outputs	
	10 Test condition	
	Note:	
	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
VC-6831/4	4 Zone Conventional control and indicating equipment	1174e/03
	Incorporating the following units:	
	VSL2.908.044 4 Zone Control Board	
	VSL2.908.045 4 Zone Display Board	
	PD-100-24 AC/DC Power Supply Module	
	Certified with the following Options with requirements from EN 54-2:1997	
	7.8 Output to fire alarm device(s)	
	7.11 Delay to outputs	
	10 Test condition	
	Note:	
	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
VC-6831/2	2 Zone Conventional control and indicating equipment	1174e/04
	Incorporating the following units:	
	VSL2.908.046 2 Zone Control Board	
	VSL2.908.047 2 Zone Display Board	
	PD-100-24 AC/DC Power Supply Module	

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.11 Delay to outputs

10 Test condition

Note:

1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 1174j to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
VI-6847	4 Loop Analogue Addressable Control and Indicating Equipment	1174j/01
	Incorporating the following modules:	
	VSL2.908.146 Main Board	
	VSL2.908.149 Indication board	
	VSL2.908.155 Terminal board	
	VSL2.908.162 Control Board	
	VSL2.908.153 Loop Card	
	VSL2.908.152 I/O Board	
	VSL2.908.169 Power Board	
	VSL7-820-150 Zone Board	
	VSL7-820-154 Network Card	
	LRS-150-24 MEAN-WELL Power Supply module	
	Certified with the following option with requirements for EN54-2:	
	7.8 Output to fire alarm devices	
	7.10.1 Outputs to fire protection equipment (Type A)	
	7.10.2 Outputs to fire protection equipment (Type B)	
	7.10.3 Outputs to fire protection equipment (Type C)	
	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal (Type A dependency)	
	7.12.2 Dependencies on more than one alarm signal (Type B dependency)	
	7.12.3 Dependencies on more than one alarm signal (Type C dependency)	
	7.13 Alarm Counter	
	9.5 Disablement of addressable point	
	10 Test condition	
	Notes:	
	1. The scope of the approval does not include the operation of the network functionality	
	2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	

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Certificate No: 1450g-(cl-3) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Product Name	Description	LPCB Ref. No
BKFA1	1-4 Loops Analogue Addressable Fire Alarm Control Panel	1450g/01
	Incorporating the following modules:	
	TC5109-Main Main board	
	TC5109-Loop Loop board	
	TC5109-XZB Loop base board	
	TC5109-Key Keypad board	
	TC5109-ZX Zone and FPE indicator board	
	TC5109-LCD Display board	
	TC5109-SCR Indicator board	
	TC5120-RS485 RS485 board	
	TC5000-MAIN-CAN CAN board	
	TC5109-LB1 Filter board 1	
	TC5109-LB2 Filter board 2	
	TC5109-POW Power Supply Equipment	
	Certified with the following options with requirements:	
	7.8 Output to fire alarm device(s)	
	7.10.1 Output to automatic fire protection equipment Type A	
	7.10.2 Output to automatic fire protection equipment Type B	
	7.10.3 Output to automatic fire protection equipment Type C	
	8.3 Fault signals from point	
	9.5 Disablement of addressable points	
	Notes:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
	2. Scope of approval does not include the operation of the network functionality.	

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Certificate No: 1174e-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
B61-801/16	16 Zone Conventional Control and Indicating Equipment	1174e/01
	Incorporating the following units:	
	VSL2.908.004 16 Zone Control Board	
	VSL2.908.007 16 Zone Display Board	

	PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
B61-801/8	8 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/02
B61-801/4	4 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/03
B61-801/2	2 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note:	1174e/04

1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 1330h-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
IGN250	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Key Board 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output to fire protection equipment - Type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 9.5 Disablement of each address point 10 Test condition Notes: 1. The scope of the approval does not include the operation of the network functionality 2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	1330h/01

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Certificate No: 1199a-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006 EN 54-21:2006
Certificate No: 1199b-(cl-1) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 1199c-(cl-1) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
2X-F1 2X-F1-S	2X-F1 Intelligent Analogue Addressable Control and Indicating Equipment with User Interface-1 Loop 2X-F1-S Intelligent Analogue Addressable Control and Indicating Equipment with User	1199a/05

Interface - 1 Loop Small Cabinet

Incorporating the following units:

2010-2F1-MB Main control board

2X-UI User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

2X-ZI-40 (40 Zone) (Large cabinet variant only)

2X-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

2X-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs

(Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs

(Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT with ATS7310 (GSM module)

2X-D-TP Translucent door option for large cabinet*

2X-D-TP-S Translucent door option for small cabinet*

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of the approval does not indicate the operation of the network functionality.

3. Available with the following language kit options: 01 Dutch (NL) The Netherlands, 02 French (FR), 03 English (UK) United Kingdom and Ireland, 04 German (DE), 05 Norwegian, 06 Swedish, 07 Danish (DK), 08 English (AU) Australia, 09 Spanish, 10 Italian, 11 Dutch (BE) Belgium, 12 Irish, 13 German (AU) (Austria), 14 Greek, 15 Arabic, 17 English (US) United States of America, 18 Polish, 19 Turkish, 20 Czech Republic, 21 Portuguese, 22 Hungarian, 23 Danish (IC) Iceland, 24 Slovakian, 25 Russian, 27 Lithuanian, 28 Finnish, 29 German (SW) Switzerland, 30 Estonian,31 Latvian, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International, 40 Bulgarian, 41 Belarusian, 43 Ukrainian, 44 Serbian, 45 Romanian (RO), 46 German (Int) International, 48 Croatian, 49 Macedonian, 50 Slovenian,51 Hebrew, 71 Catalan, 80 Chinese, 99 English (Int) International English.

4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-

	2 requirements with the door fitted the following is also required: i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3). ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).	
KFP-AF1 KFP-AF1-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK Mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	1199a/05
ZP2-F1 ZP2-F1-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Small Cabinet Incorporating the following units:	1199a/05

	2010-2F1-MB Main control board ZP2-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-TP Translucent door option for large cabinet* ZP2-D-TP-S Translucent door option for small cabinet* The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13. 3.*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN 54-2 requirements with the door fitted the following is also required: i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3). ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)	
2X-F1-FB2 2X-F1-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board 2X-UI-FB2 User interface control board	1199a/07

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

2X-ZI-40 (40 Zone) (Large cabinet variant only)

2X-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

2X-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only)

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

ADP-N3E-U IFAM interface card (master) (Large cabinet variant only)

ADP-N3S Interface card (slave) (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2X-D-FB2-TP Translucent door option for large cabinet*

2X-D-FB2-TP-S Translucent door option for small cabinet*

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

KFP-AF1-FB2 KFP-AF1-FB2 -S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI-FB2 User interface control board	1199a/07

	2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZP2-F1-FB2 ZP2-F1-FB2 -S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade controls - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules:	1199a/07

	ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* ZP2-D-FB2-TP-S Translucent door option for small cabinet* The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
2X-E1 2X-E1-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules:	1199a/08

	2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-E-TP Translucent door option for large cabinet* 2X-D-E-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13. 3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required: i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3). ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).	
KFP-AE1 KFP-AE1-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules:	1199a/08

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)

KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)

KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

KFP-A-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of the approval does not indicate the operation of the network functionality.

3. Available with the following language kit options:

01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium,12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English.

ZP2-E1 ZP2-E1-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board	1199a/08

ZP2-UI-E User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)

ZP2-ZI-40 (40 Zone) (Large cabinet variant only)

ZP2-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

ZP2-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

ZP2-D-E-TP Translucent door option for large cabinet*

ZP2-D-E-TP-S Translucent door option for small cabinet*

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of the approval does not indicate the operation of the network functionality

3. Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia,50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-

2 requirements with the door fitted the following is also required:

i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3).

A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).

2X-F1-SCFB 2X-F1-SCFB-S

Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop with Scandinavian Key Switch — 1199a/09

Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop Small Cabinet with Scandinavian Key Switch

Incorporating the following units:

2010-2F1-MB Main control board

2X-UI-SCFB User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

2X-ZI-40 (40 Zone) (Large cabinet variant only)

2010-2-NB Network card

2X-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-SK Scandinavian key and lock assembly

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of the approval does not indicate the operation of the network functionality.

3. Available with the following language kit options:

	01 Dutch (NL) The Netherlands, 02 French (FR), 03 English (UK) United Kingdom and Ireland, 04 German (DE), 05 Norwegian, 06 Swedish, 07 Danish (DK), 08 English (AU) Australia, 09 Spanish, 10 Italian, 11 Dutch (BE) Belgium, 12 Irish, 13 German (AU) (Austria), 14 Greek, 15 Arabic,-17 English (US) United States of America, 18 Polish, 19 Turkish, 20 Czech Republic, 21 Portuguese, 22 Hungarian, 23 Danish (IC) Iceland, 24 Slovakian, 25 Russian, 27 Lithuanian, 28 Finnish, 29 German (SW) Switzerland, 30 Estonian, 31 Latvian, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International, 40 Bulgarian, 41 Belarusian, 43 Ukrainian, 44 Serbian, 45 Romanian (RO), 46 German (Int) International, 48 Croatian, 49 Macedonian, 50 Slovenian, 51 Hebrew, 71 Catalan, 80 Chinese, 99 English (Int) International English.	
KFP-AF1-SCFB KFP-AF1-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer with Scandinavian Key Switch Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes:	1199a/09

	1. Scope of approval does not include the operation of the network functionality 2.This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZP2-F1-SCFB ZP2-F1-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F1-MB Main control board ZP2-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2.This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	1199a/09
2X-F2 2X-F2-PRT 2X-F2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop with Printer	1199a/10

Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Small Cabinet

Incorporating the following units:

2010-2F2-MB Main control board

2X-UI User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

2X-ZI-40 (40 Zone) (Large cabinet variant only)

2X-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

2X-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PRT Door mounted printer module (2X-F2-PRT variant only)

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2X-D-TP Translucent door option for large cabinet* (2X-F2 variant only)

2X-D-TP-S Translucent door option for small cabinet* (2X-F2-S variant only)

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)

KFP-AF2 KFP-AF2-PRT KFP-AF2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop	1199a/10

Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2

	Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (KFP-A-F2-PRT variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZP2-F2 ZP2-F2-PRT ZP2-F2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI User interface control board	1199a/10

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)

ZP2-ZI-40 (40 Zone) (Large cabinet variant only)

ZP2-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

ZP2-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PRT Door mounted printer module (ZP2-F2-PRT variant only)

2010-2-PIB-8O Peripheral Interface Board 8 outputs

(Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs

(Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

ZP2-D-TP Translucent door option for large cabinet* (ZP2-F2 variant only)

ZP2-D-TP-S Translucent door option for small cabinet* (ZP2-F2-S variant only)

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).

2X-F2-FB2 2X-F2-FB2-PRT 2X-F2-FB2 -S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer	1199a/12

Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet

Incorporating the following units:

2010-2F2-MB Main control board

2X-UI-FB2 User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

2X-ZI-40 (40 Zone) (Large cabinet variant only)

2X-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

2X-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PRT Door mounted printer module (2X-F2-FB2-PRT variant only)

2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only)

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

ADP-N3E-U IFAM interface card (master) (Large cabinet variant only)

ADP-N3S Interface card (slave) (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2X-D-FB2-TP Translucent door option for large cabinet* (2X-F2-FB2 variant only)

2X-D-FB2-TP-S Translucent door option for large cabinet* (2X-F2-FB2-S variant only)

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

3.*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2

	requirements with the door fitted the following is also required: i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3) ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).	
KFP-AF2-FB2 KFP-AF2-FB2-PRT KFP-AF2-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire brigade Controls - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (KFP-A-F2-FB2-PRT variant only) 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U (Large cabinet variant only) ADP-N3S (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition	1199a/12

	Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZP2-F2-FB2 ZP2-F2-FB2-PRT ZP2-F2-FB2 -S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (ZP2-F2-FB2-PRT variant only) 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13. 3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:	1199a/12

	i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3) ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)	
2X-F2-SCFB 2X-F2-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F2-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	1199a/13
KFP-AF2-SCFB KFP-AF2-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop Small Cabinet with Scandinavian Key Switch	1199a/13

	Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (KFP-A-F2-SCFB-PRT variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZP2-F2-SCFB ZP2-F2-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules:	1199a/13

	ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
2X-E2 2X-E2-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer	1199a/14

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2X-D-E-TP Translucent door option for large cabinet*

2X-D-E-TP-S Translucent door option for large cabinet*

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of the approval does not indicate the operation of the network functionality.

3. Available with the following language kits: -

01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)

KFP-AE2 KFP-AE2-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units:	1199a/14

2010-2F2-MB Main control board

KFP-A-UI-E User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)

KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)

KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

KFP-A-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of the approval does not indicate the operation of the network functionality.

3. Available with the following language kit options:

01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English.

Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet

Incorporating the following units:

2010-2F2-MB Main control board

ZP2-UI-E User interface control board

2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)

ZP2-ZI-40 (40 Zone) (Large cabinet variant only)

ZP2-ZI-24-S (24 Zone) (Small cabinet variant only)

2010-2-NB Network card

ZP2-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT With ATS7310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

ZP2-D-E-TP Translucent door option for large cabinet* ZP2-D-E-TP-S Translucent door option for large cabinet*

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10 Output to fire protection equipment (Type A, B, and C)

7.11 Delays to outputs

7.12 Dependencies on more than one alarm signal (Type A, B and C)

7.13 Alarm counter

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of the approval does not indicate the operation of the network functionality

3. Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French

	(Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English 4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required: i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3) A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).	
2X-FR 2X-FR-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater Intelligent Analogue Addressable Control and Indicating Equipment Repeater Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board 2X-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-TP Translucent door option for large cabinet* 2X-D-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit Note: Compatible with the following CIE - 2X-F1	1199a/R01
KFP-A-FR KFP-A-FR-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater Intelligent Analogue Addressable Control and Indicating Equipment Repeater Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only)	1199a/R01

	2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Note: Compatible with the following CIE - KFP-AF1	
ZP2-FR ZP2-FR-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater Intelligent Analogue Addressable Control and Indicating Equipment Repeater Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-TP Translucent door option for large cabinet* ZP2-D-TP-S Translucent door option for small cabinet* Note: Compatible with the following CIE - ZP2-F1	1199a/R01
2X-FR-FB2 2X-FR-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet	1199a/R02

	Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-FB2-TP Translucent door option for large cabinet* 2X-D-FB2-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit Note: Compatible with the following CIE - 2X-F1-FB2	
KFP-A-FR-FB2 KFP-A-FR-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only)	1199a/R02

	2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Note: Compatible with the following CIE - KFP-AF1-FB2	
ZP2-FR-FB2 ZP2-FR-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* ZP2-D-FB2-TP-S Translucent door option for small cabinet* Note: Compatible with the following CIE - ZP2-F1-FB2	1199a/R02
2X-ER 2X-ER-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units:	1199a/R04

	2010-2FR-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-E-TP Translucent door option for large cabinet* 2X-D-E-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit Compatible with the following CIE - 2X-E1	
KFP-A-ER KFP-A-ER-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Note:	1199a/R04

	Compatible with the following CIE - KFP-AE1	
ZP2-ER ZP2-ER-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-E-TP Translucent door option for large cabinet* ZP2-D-E-TP-S Translucent door option for small cabinet Note: Compatible with the following CIE - ZP2-F1-SC	1199a/R04
2X-FR-SCFB 2X-FR-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet	1199a/R05

	2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variantonly) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-FS-EOL Fault Supervision End of Line unit Note: Compatible with the following CIE - 2X-F1-SCFB	
KFP-A-FR-SCFB KFP-A-FR-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Note: Compatible with the following CIE - KFP-AF1-SCFB	1199a/R05
ZP2-FR-SCFB ZP2-FR-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer	1199a/R05

	2010-SK Scandinavian key and lock assembly	
	2010-2-PS-C2 UK mains cable for large cabinet	
	2010-2-PS-C2-S UK mains cable for small cabinet	
	2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit	
	Note:	
	Compatible with the following CIE - ZP2-F1-SCFB	
ZPU (Traditional Chinese Language Variant)	1, 2 and 4 loop analogue addressable control and indicating equipment	1199c/01
	Incorporating as modular units:	
	ZP3-MB2-4L 4 Loop Main board	
	ZP3-MB2-2L 2 Loop Main board	
	ZP3-MB2-1L 1 Loop Main board	
	ZP3-CPU1 CPU board	
	ZP3-DB1 Display board	
	ZP3-ZB50 50 Zone LED board	
	ZP3-CB1 Commissioning key switch board	
	ZP3-PR1 Printer Kit	
	ZP3AB-SCB-D Control bus driver	
	ZP3AB-RL8 Programmable relay output board, 8 way	
	ZP3-AB-MA8 Programmable monitored output board, 8 way	
	ZP3AB-OP24 Programmable transistor output board, 24 way	
	ZP3AB-MIP8 Programmable input board, 8 way	
	ZP3-XI 230Vac Power supply unit	
	Approved with the following options from BS EN54 Part 2:	
	7.8 Output to fire alarm devices	
	7.9 Output to fire alarm routing equipment	
	7.10 Output to fire protection equipment	
	7.11 Delays to outputs	
	7.12 Co-incidence detection	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of power	
	8.9 Output to fault routing equipment	
	9.5 Disablement of addressable points	
	10 Test condition	
	11 Standardised input/output interface	

Certificate No: 1199b-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
1X-F2 1X-F2-SC	Conventional Two Zone Control and Indicating Equipment	1199b/01

Conventional Two Zone Control and Indicating Equipment with Scandinavian Key Switch

Incorporating the following units:

1X-F2-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Optional expander I/O board

2010-1-NB Optional Network board

2010-PS-20 using LRS-75-24 2A Power Supply

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

8.4 Total loss of the power supply

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

International English

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

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KFP-CF2 KFP-CF2-SC — Conventional Two Zone Control and Indicating Equipment — 1199b/01

Conventional Two Zone Control and Indicating Equipment with Scandinavian Key Switch

Incorporating the following units:

KFP-CF2-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Optional expander I/O board

2010-1-NB Optional Network board

2010-PS-20 using LRS-75-24 2A Power Supply

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

8.4 Total loss of the power supply

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

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ZP1-F2 ZP1-F2-SC — Conventional Two Zone Control and Indicating Equipment — 1199b/01

Conventional Two Zone Control and Indicating Equipment with Scandinavian Key Switch

Incorporating the following units:

1X-F2-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Optional expander I/O board

2010-1-NB Optional Network board

2010-PS-20 using LRS-75-24 2A Power Supply

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

8.4 Total loss of the power supply

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

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1X-F4 1X-F4-NL 1X-F4-SC — Conventional Four Zone Control and Indicating Equipment — 1199b/02

Conventional Four Zone Control and Indicating Equipment

Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch

Incorporating the following units:

1X-F4-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Expander I/O board

2010-1-NB Optional Network board

2010-PS-20 using LRS-75-24 2A Power Supply

2010-1-AC Alarm Counter (Applicable to NL variant)

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment -Type A

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

KFP-CF4 KFP-CF4-NL KFP-CF4-SC	Conventional Four Zone Control and Indicating Equipment	1199b/02

Conventional Four Zone Control and Indicating Equipment

Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch

Incorporating the following units:

KFP-CF4-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Expander I/O board

2010-1-NB Optional Network board

2010-PS-20 using LRS-75-24 2A Power Supply

2010-1-AC Alarm Counter (Applicable to NL variant)

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment -Type A

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

ZP1-F4 ZP1-F4-NL ZP1-F4-SC	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: 1X-F4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board	1199c/02

2010-PS-20 using LRS-75-24 2A Power Supply

2010-1-AC Alarm Counter (Applicable to NL variant)

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment -Type A

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

1X-F8 1X-F8-NL 1X-F8-SC	Conventional Eight Zone Control and Indicating Equipment	1199b/03

Conventional Eight Zone Control and Indicating Equipment

Conventional Eight Zone Control and Indicating Equipment with Scandinavian Key Switch

Incorporating the following units:

1X-F8-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Expander I/O board

2010-1-NB Optional Network board

2010-PS-40 using LRS-100-24 4A Power Supply

	2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition Notes: 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: 01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English	
KFP-CF8 KFP-CF8-NL KFP-CF8-SC	Conventional Eight Zone Control and Indicating Equipment Conventional Eight Zone Control and Indicating Equipment Conventional Eight Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: KFP-CF8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-40 using LRS-100-24 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant)	1199b/03

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment -Type A

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

ZP1-F8 ZP1-F8-NL ZP1-F8-SC	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: 1X-F8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-40 using LRS-100-24 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant)	1199b/03

2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment -Type A

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment -Type A

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

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1X-E4 1X-E4-NL — Conventional Four Zone Control and Indicating Equipment — 1199b/04

Conventional Four Zone Control and Indicating Equipment

Incorporating the following units:

1X-E4-MB Main control board

2010-1-RB Optional relay board

2010-1-SB Expander I/O board

2010-1-NB Optional Network board

2010-PS-40 using LRS-100-24 4A Power Supply

2010-1-AC Alarm Counter (Applicable to NL variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delays to outputs - Applicable to fire alarm routing equipment only

7.13 Alarm counter (Applicable to NL variant only)

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English

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Certificate No: 1199c-(cl-1) to EN 54-4:1998

Control and indicating equipment

Product Name	Description	LPCB Ref. No
ZP3	1, 2 and 4 loop analogue addressable control and indicating equipment	1199c/01
	Incorporating as modular units:	
	ZP3-MB2-4L 4 Loop Main board	
	ZP3-MB2-2L 2 Loop Main board	
	ZP3-MB2-1L 1 Loop Main board	
	ZP3-CPU1 CPU board	
	ZP3-DB1 Display board	
	ZP3-ZB50 50 Zone LED board	

ZP3-CB1 Commissioning key switch board

ZP3-PR1 Printer Kit

ZP3AB-SCB-D Control bus driver

ZP3AB-RL8 Programmable relay output board, 8 way

ZP3-AB-MA8 Programmable monitored output board, 8 way

ZP3AB-OP24 Programmable transistor output board, 24 way

ZP3AB-MIP8 Programmable input board, 8 way

ZP3-XI 230Vac Power supply unit

Approved with the following options from BS EN54 Part 2:

7.8 Output to fire alarm devices

7.9 Output to fire alarm routing equipment

7.10 Output to fire protection equipment

7.11 Delays to outputs

7.12 Co-incidence detection

7.13 Alarm counter

8.3 Fault signals from points

8.4 Total loss of power

8.9 Output to fault routing equipment

9.5 Disablement of addressable points

10 Test condition

11 Standardised input/output interface

Ceasefire Industries Private Limited

E6, Selaqui Industrial Area, Dehradun, Uttarakhand, 248011, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 810a-(cl-5) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Pro-Sense TI-002306, TI-002307	Pro-Sense 2 and 4 Zone Conventional Control and Indicating Equipment	810a/03
	TI-002306	
	Incorporating as modular units:	
	TPC A01-E2 2 zone main PCB applicable on 2 zone CIE only	
	TPC A02 LED display PCB	
	PSM1.5-24 Power supply 1.5A rated	
	Certified with the following options with requirements from EN 54 Part 2:	
	7.8 Output to fire alarm devices	
	7.12.1 Dependency on more than one alarm signal type A	
	10 Test condition	
	TI-002307	
	Incorporating as modular units:	
	TPC A01-E4 4 zone main PCB applicable on 4 zone CIE only	
	TPC A02 LED display PCB	

	PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
Pro-Sense TI-002310, TI-002311, TI-002312	16, 24 and 32 Zone Conventional Control and Indicating Equipment TI-002310 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board TI-002311 24 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board TI-002312 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2:	810a/08

	7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
Pro-Sense TI-002308	8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/10
Pro-Sense TI-002309	12 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B	810a/11

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Channel Safety Systems Ltd

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Tel: 08458847000
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Certificate No: 176b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
CFP702-4/CHAN	Two zone conventional control and indicating equipment Incorporating the units: RPF0702005 Power supply PCB SPF0724851 2 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/07
CFP704-4/CHAN	Four zone conventional control and indicating equipment Incorporating the units: RPF0702005 Power supply PCB SPF0724853 4 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/08
CFP708-4/CHAN	Eight zone conventional control and indicating equipment Incorporating the units: RPF0702005 Power supply PCB SPF0724855 8 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/09

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire, WN5 0LD, United Kingdom
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Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
XFP502/H	2 loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Hochiki Protocol, Metal Housing Incorporating the following units: SPF0501021 Switch mode power supply board SPF0501202 XFP Hochiki 2 loop, Mainboard SPF0501199 Display board "keypad display" Optional language variants; XFP502/H/NL Dutch language variant Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/01
XFP502/X	2 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the follwing units: SPF0501425 XFP Apollo 2 loop, Mainboard SPF0501199 Display board (keypad display) SPF0501021 Switch mode power supply board Optional language variants; XFP502/X/ES Spanish language variant XFP502/X/FR French language variant XFP502/X/PORT Portuguese language variant XFP502/X/NL Dutch language variant XFP502/X/CZ Czech language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A	176b/02

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

XFP501/H — 1 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Hochiki Protocol, Metal Housing — 176b/03

Incorporating the following units:

SPF0501435 XFP Hochiki 1 loop, Mainboard

SPF0501199 Display board "Keypad display"

SPF0501021 Switch mode power supply board

Optional language variants;

XFP501/H/NL Dutch language variant

Certified with the following options with requirements from EN54-2: 1997

7.8 Output to fire alarm device(s)

7.11 Delays to the actioning of outputs fire alarm devices and fire routing

equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

XFP501/X — 1 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing — 176b/04

Incorporating the following units:

SPF0501424 XFP Apollo 1 loop, Mainboard

SPF0501199 Display board "keypad display"

SPF0501021 Switch mode power supply board

Optional language variants;

XFP501/X/ES Spanish language variant

XFP501/X/FR French language variant

XFP501/X/PORT Portuguese language variant

XFP501/X/NL Dutch language variant

XFP501/X/CZ Czech language variant

Certified with the following options with requirements from EN54-2: 1997

7.8 Output to fire alarm device(s)

7.11 Delays to the actioning of outputs fire alarm devices and fire routing

equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

XFP501E/H — 1 Loop, 16 zone analogue addressable control and indicating equipment using Hochiki protocol, plastic housing — 176b/05

Incorporating the following units:

SPF0702025 Switch mode power supply board

SPF0501118 XFP Hochiki 1 loop, main motherboard

Optional language variants;

XFP501E/H/NL Dutch language variant

Certified with the following options with requirements from EN54-2: 1997

7.8 Output to fire alarm device(s)

7.11 Delays to the actioning of outputs fire alarm devices and fire routing

equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

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XFP501E/X — 1 Loop, 16 zone analogue addressable control and indicating equipment using Apollo Protocol, plastic housing — 176b/06

Incorporating the following units:

SPF0702025 Switch mode power supply board

SPF0501116 XFP Apollo 1 loop, main motherboard

Optional language variants;

XFP501E/X/ES Spanish language variant

XFP501E/X/FR French language variant

	XFP501E/X/PORT Portuguese language variant XFP501E/X/NL Dutch language variant XFP501E/X/CZ Czech language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality	
CFP702-4	Two zone conventional control and indicating equipment Optional language variants; CFP702-4/DE German language variant CFP702-4/ES Spanish language variant CFP702-4/FR French language variant CFP702-4/ICE Icelandic language variant CFP702-4/PORT Portuguese language variant CFP702-4/NL Dutch language variant CFP702-4/CZ Czech language variant CFP702-4/CH Chinese language variant Optional colour variant; CFP702-4/R Red Box Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724871 2 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/07
CFP704-4	Four zone conventional control and indicating equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724873 4 Zone main control board Optional language variants; CFP704-4/DE German language variant CFP704-4/ES Spanish language variant	176b/08

	CFP704-4/FR French language variant	
	CFP704-4/ICE Icelandic language variant	
	CFP704-4/PORT Portuguese language variant	
	CFP704-4/NL Dutch language variant	
	CFP704-4/CZ Czech language variant	
	CFP704-4/CH Chinese language variant	
	Optional colour variant;	
	CFP704-4/R Red Box	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP708-4	Eight zone conventional control and indicating equipment	176b/09
	Incorporating the units:	
	SPF0702025 Switch mode power supply unit board	
	SPF0724875 8 Zone main control board	
	Optional language variants;	
	CFP708-4/DE German language variant	
	CFP708-4/ES Spanish language variant	
	CFP708-4/FR French language variant	
	CFP708-4/ICE Icelandic language variant	
	CFP708-4/PORT Portuguese language variant	
	CFP708-4/NL Dutch language variant	
	CFP708-4/CZ Czech language variant	
	CFP708-4/CH Chinese language variant	
	Optional colour variant;	
	CFP708-4/R Red Box	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP702-2	Alarmsense two zone conventional control and indication equipment	176b/14
	Incorporating the following units:	
	SPF0702025 Switch mode power supply unit board	
	SPF0724870 2 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP704-2	Alarmsense four zone conventional control and indicating equipment	176b/15
	Incorporating the following units:	
	SPF0702025 Switch mode power supply unit board	

	SPF0724872 4 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	
CFP708-2	Alarmsense eight zone conventional control and indicating equipment Incorporating the following units: SPF0702025 Switch mode power supply unit board SPF0724874 8 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/16
XFP501E/CA	1 Loop 16 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, plastic housing Incorporating the following modules: SPF0050127 1 Loop Main board SPF0702025 Switch mode power supply board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/26
XFP501/CA	1 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, metal housing Incorporating the following modules: SPF0050110 1 Loop Main board SPF0501021 Switch mode power supply board SPF0501199 Display Board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter	176b/27

	8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
XFP502/CA	2 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, metal housing Incorporating the following modules: SPF0050210 2 Loop Main board SPF0501021 Switch mode power supply board SPF0501199 Display Board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/28
ZFP1/CA	ZFP 1 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/29

ZFP2/CA	ZFP 2 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/30
ZFP4/CA	ZFP 4 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0999307 Loop 3 - 4 expansion PCB RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes:	176b/31

	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ZFP1/40/CA	ZFP 1 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000025 Z47-40 LED Display RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000024 Z48 - 40 LED Display with 5 key switches RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/32
ZFP2/40/CA	ZFP 2 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000025 Z47-40 LED Display RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000024 Z48 - 40 LED Display with 5 key switches RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter	176b/33

	8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ZFP4/40/CA	ZFP 4 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0999307 Loop 3 - 4 expansion PCB RPF0000025 Z47-40 LED Display RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000024 Z48 - 40 LED Display with 5 key switches RPF0000029 Z13 - 8-way I/O PCB RPF0000028 Z11 - 4 way relay PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/34

Certificate No: 176c to EN 12094-1: 2003 and EN 54-2: 1997 + A1: 2006 + A2: 2007, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
EP203	Conventional three zone class A extinguisher control panel Incorporating the following units: SPF0000203 Main extinguisher control SPF0000212 External relay interface SPF0361021 Power supply unit SPF0000214 EP214 terminator Incorporating as modular units: EP211 Economy Status Unit optional (See Note 1) Optional language variants;	176c/01

EP203/ES Spanish language variant

EP203/FR French language variant

EP203/IT Italian language variant

EP203/DE German language variant

Certified with the following options with requirements from EN 12094-1:2003

4.17 Delay of extinguishing signal

4.18 Signal representing the flow of extinguishing agent

4.19 Monitoring of the status of components

4.20 Emergency hold device

4.21 Control of flooding time

4.23 Manual only mode

4.26 Triggering of equipment outside the system

4.27 Emergency abort device

4.30 Activation of alarm devices with different signals

Certified with the following options with requirements from EN-54-2:1997

7.8 Output to fire alarm device(s)

7.11 Delays to the actioning of outputs fire alarm devices and fire routing

equipment

7.13 Alarm counter

10 Test condition

Notes:

1. The following modules are ancillaries that are permitted to be connected to the e.c.d. as optional modules but are not tested or approved to any standard(s)

EP210S Remote Status Unit Surface Mount optional

EP210F Remote Status Unit Flush Mount optional

EP211 Economy Status Unit optional

EP215 Emergency Hold/Abort

2. The e.c.d. meets the requirements of EN12094-1:2003, Class A - i.e. operational temperature range of -5 ° ? C to + 40 ° ? C.

3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Certificate No: 176p to EN54-4: 1997 + A1: 2002 + A2: 2006

Power Supply Equipment

Product Name	Description	LPCB Ref. No
BF560-12	12V, 2A Boxed Power Supply Plastic Housing with 7Ah battery Incorporating the following units: SPF5601204 - Power supply module SPF0360000 - Display module Note: 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	176p/01
BF560-24	24V, 1.5A Boxed Power Supply Plastic Housing with 3.2Ah batteries Incorporating the following units: SPF5602402 - Power supply module	176p/02

	SPF0360010 - Display module Note: 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	
BF562-1	24V, 1.5A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF5602402 - Power supply module SPF0003610 - Display module Note: 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	176p/03
NT560-12/E	12V, 2A Boxed Power Supply Metal Housing with 12Ah Battery Incorporating the following units: SPF5601202 - Power supply module Note: 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	176p/04
NC560-12/E	12V, 2A Boxed Power Supply Metal Housing with 12Ah Battery Incorporating the following units: SPF5601202 - Power supply module Note: 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	176p/07
BF562-3	24V, 3A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF0361021 - Power supply module SPF0003610 - Display module Note: 1. 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	176p/06
BF562-5	24V, 5A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF0361021 - Power supply module SPF0003610 - Display module Note: 1. 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment	176p/05

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Certificate No: 176b-(cl-2) to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1 :2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
XFP502/X/CON	2 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the following units: SPF0501021 Switch mode power supply board SPF0501425 XFP Apollo 2 loop, Mainboard SPF0501199 Display board (Keypad display) Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/02
XFP501/X/CON	1 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the following units: SPF0501021 Switch mode power supply board SPF0501424 XFP Apollo 1 loop, Mainboard SPF0501199 Display board (keypad display) Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/04
XFP501E/X/CON	1 Loop, 16 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Plastic Housing	176b/06

Incorporating the following units:

SPF0702025 Switch mode power supply board

SPF0501116 XFP Apollo 1 loop, main motherboard

Certified with the following options with requirements from EN54-2: 1997

7.8 Output to fire alarm device(s)

7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

CFP702-4/CON	Two Zone Conventional Control and Indicating Equipment	176b/07

Incorporating the units:

SPF0702025 Switch mode power supply unit board

SPF0724871 2 Zone main control board

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm devices(s)

7.11 Delays to outputs

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

CFP704-4/CON	Four Zone Conventional Control and Indicating Equipment	176b/08

Incorporating the units:

SPF0702025 Switch mode power supply unit board

SPF0724873 4 Zone main control board

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm devices(s)

7.11 Delays to outputs

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

	2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
CFP708-4/CON	Eight Zone Conventional Control and Indicating Equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724875 8 Zone main control board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/09
XFP501E/CA/CON	1 Loop 16 Zone Analogue Addressable Control and Indicating Equipment using CAST Protocol, Plastic Housing Incorporating the following modules: SPF0050127 1 Loop Main board SPF0702025 Switch mode power supply board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/26
XFP501/CA/CON	1 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST Protocol, Metal Housing Incorporating the following modules: SPF0050110 1 Loop Main board SPF0501021 Switch mode power supply board SPF0501199 Display Board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B	176b/27

	7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
XFP502/CA/CON	2 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST Protocol, Metal Housing Incorporating the following modules: SPF0050210 2 Loop Main board SPF0501021 Switch mode power supply board SPF0501199 Display Board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/28
ZFP1/40/CA/CON	1 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 Zone Indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000025 Z47 - 40 LED Display RPF0000060 Credit card Processor board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB RPF0000024 Z48 - 40 LED Display with 5 key switches Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs	176b/32

	7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZFP2/40/CA/CON	2 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 Zone Indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000025 Z47 - 40 LED Display RPF0000060 Credit card Processor board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB RPF0000024 Z48 - 40 LED Display with 5 key switches Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 11. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/33
ZFP4/40/CA/CON	4 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0999307 Loop 3 - 4 expansion PCB RPF0000025 Z47 - 40 LED Display RPF0000060 Credit card Processor board RPF0361020 5 Amp PSU module	176b/34

Optional Modules:

RPF0000028 Z11 - 4-way Relay PCB

RPF0000029 Z13 - 8-way I/O PCB

RPF0000024 Z48 - 40 LED Display with 5 key switches

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

8.3 Fault signal from points

9.5 Disablement of each addressable point

10 Test Condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Certificate No: 176c-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006, EN 12094-1:2003, EN 54-2:1997 + A1:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
EP203/CON	Conventional Three Zone 'Class A' Extinguisher Control Panel under Context Plus Brand	176c/01

Incorporating the following units:

SPF0000203	Main extinguisher control
SPF0000212	External relay interface
SPF0361021	Power supply unit
SPF0000214	EP214 terminator

Certified with the following options with requirements from EN 12094-1:2003

4.17 Delay of extinguishing signal

4.18 Signal representing the flow of extinguishing agent

4.19 Monitoring of the status of components

4.20 Emergency hold device

4.21 Control of flooding time

4.23 Manual only mode

4.26 Triggering of equipment outside the system

4.27 Emergency abort device

4.30 Activation of alarm devices with different signals

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment

7.13 Alarm counter

10 Test condition

Notes:

1. The following modules are ancillaries that are permitted to be connected to the e.c.d. as optional modules but are not tested or approved to any standard(s)

EP210S Remote Status Unit “Surface Mount” optional
EP210F Remote Status Unit “Flush Mount” optional

EP211 Economy Status Unit optional

EP215 Emergency Hold/Abort

2. The e.c.d. meets the requirements of EN 12094-1:2003, Class A – i.e. operational temperature range of -5°C to + 40°C.

3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN 54-13.

DEF ..

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Certificate No: 1652a-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006

Power Supply Equipment

Product Name	Description	LPCB Ref. No
AU1024A2/3	Power Supply Equipment (CM03B enclosure)	1652a/01
	Incorporating as modular units:	
	GAL300W Main board	
	SC-GAL Control board	
	4LED_ALK LEDs reporting board	

DEF.

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Certificate No: 1548a-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Product Name	Description	LPCB Ref. No
LEONIS A	1-2 Loop Analogue Addressable Control and Indicating Equipment, Apollo Protocol, Plastic Housing	1548a/01
	Incorporating the following mandatory modules	
	MCU Main Board	
	BA100 Power Supply	
	CPFA Display Board	
	M1LA 1 Loop x Apollo protocol	
	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-EG 4 I/O & 2 Relay	

	M8GPIO-EG 8 channel I/O	
	MR10-EG 10 relay outputs	
	MGW-EG Supervisor gateway	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of the power supply	
	9.5 Disablement of addressable points	
	10 Test condition	
LEONIS A	1-4 Loop Analogue Addressable Control and Indicating Equipment, Apollo Protocol, Metal Housing	1548a/02
	Incorporating the following mandatory modules	
	MCU Main Board	
	BA100 Power Supply	
	CPFA Display Board	
	M1LA 1 Loop x Apollo protocol	
	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-EG 4 I/O & 2 relay	
	M8GPIO-EG 8 channel I/O	
	MR10-EG 10 relay outputs	
	MGW-EG Supervisor gateway	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of the power supply	
	9.5 Disablement of addressable points	
	10 Test condition	
LEONIS	1-2 Loop Analogue Addressable Control and Indicating Equipment for LOTA range of products, Plastic Housing	1548a/03
	Incorporating the following mandatory modules	
	MCU Main Board	
	BA100 Power Supply CPFA Display Board	
	M1BT Detection path for LOTA range of products	

	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-EG 4I/O & 2 Relay	
	M8GPIO-EG 8 channel I/O	
	MR10-EG 10 relay outputs	
	MGW-EG Supervisor gateway	
	MGER-EG Alarm and Fault transmission path	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of the power supply	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of addressable points	
	10 Test condition	
LEONIS	1-4 Loop Analogue Addressable Control and Indicating Equipment for LOTA range of products, Metal Housing	1548a/04
	Incorporating the following mandatory modules	
	MCU Main Board	
	BA100 Power Supply CPFA Display Board	
	M1BT Detection path for LOTA range of products	
	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-EG 4 I/O & 2 relay	
	M8GPIO-EG 8 channel I/O	
	MR10-EG 10 relay outputs	
	MGW-EG Supervisor gateway	
	MGER-EG Alarm and Fault transmission path	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	

7.13 Alarm counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Detectomat Systems GmbH.

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Certificate No: 1548a-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
DC520	1-2 Loop Analogue Addressable Control and Indicating Equipment, DL 520 Protocol, Plastic Housing	1548a/03
	Incorporating the following mandatory modules	
	CPU-520 Main Board	
	BA100 Power Supply CPFA Display Board	
	M1BT ELOT (1 Loop Detection path, DL 520 protocol)	
	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-520 4 I/O & 2 relay	
	M8IO-520 8 channel I/O	
	M10R- 520 10 relay outputs	
	MGW-520 Supervisor gateway	
	MGER-520 Alarm and Fault transmission path	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of the power supply	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of addressable points	
	10 Test condition	
DC520	1-4 Loop Analogue Addressable Control and Indicating Equipment, DL 520 Protocol, Metal Housing	1548a/04

Incorporating the following mandatory modules

CPU-520 Main Board

BA100 Power Supply CPFA Display Board

M1BT ELOT (1 Loop Detection path, DL 520 protocol)

Incorporating the following optional modules

M2SL 2x conventional Sounder

BPS Backplane

M4IO2R-520 4 I/O & 2 relay

M8IO-520 8 channel I/O

M10R- 520 10 relay outputs

MGW-520 Supervisor gateway

MGER-520 Alarm and Fault transmission path

Certified with the following option with requirements

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.10.1 Outputs to fire controls for fire protection equipment - Output type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

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Certificate No: 378ab to EN 54-2:1997+A1:2006 & EN 54-4:1997 +A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
CF1100	1 Loop Intelligent Addressable Control and Indicating Equipment	378ab/01
	Incorporating the following modules;	
	YPCB2305 Main Board	
	YPCB2137 Display Board	
	YPCB2209 Power Supply Board	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm device(s)	
	7.9.1 Output to fire alarm routing equipment	
	7.11 Delays to outputs	

	7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition Notes 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
DF6100	1 Loop Intelligent Addressable Control and Indicating Equipment (MENVIER Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition Notes 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378ab/02
FX6100	1 Loop Intelligent Addressable Control and Indicating Equipment (JSB Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition Notes 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378ab/03
CF1200	2 Loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board	378ab/04

	Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition Notes 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
DF61002	2 Loop Intelligent Addressable Control and Indicating Equipment (MENVIER Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition Notes 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378ab/05
FX61002	2 Loop Intelligent Addressable Control and Indicating Equipment (JSB Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition Notes 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378ab/06

Certificate No: 378q-(cl-1) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
EFXDO1020	xDetect 1-2 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards) EFXD05082 xDetect CIE Backplane Small Enclosure EFXD05053 xDetect CIE Int. Single PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05091 xDetect CIE Door Small HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378q/01
EFXD01040	xDetect 1-4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card	378q/02

EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs

36-A780 xDetect HMI

26-A470 xDetect HMI Screen Module

EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:

EFXD05040 xDetect Network Card

Mechanical optional modules:

EFXD05092 xDetect CIE Door Large HMI Only

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire protection equipment - Output type A

7.10.2 Outputs to fire protection equipment - Output type B

7.10.3 Outputs to fire protection equipment - Output type C

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm Counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

EFXD01022	xDetect 1-2 Loop Addressable Control and Indicating Equipment	378q/03

Incorporating the following modules:

EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards)

EFXD05082 xDetect CIE Backplane Small Enclosure

EFXD05053 xDetect CIE Int. Single PSE backplane

EFXD05080 xDetect CIE Panel Gateway Card

EFXD05030 xDetect Programmable IO Card

EFXD05020 xDetect Sounder Circuit Card 2 Outputs

36-A780 xDetect HMI

26-A470 xDetect HMI Screen Module

EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:

EFXD05040 xDetect Network Card

EFXD05060 xDetect Zonal Indicator Board - 128 Zone

	Mechanical optional modules: EFXD05091 xDetect CIE Door Small HMI Only EFXD05093 xDetect CIE Door Small 128 Zone Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
EFXD01042	xDetect 4 Loop Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card EFXD05060 xDetect Zonal Indicator Board - 128 Zone Mechanical optional modules: EFXD05092 xDetect CIE Door Large HMI Only EFXD05094 xDetect CIE Door Large 128 Zone EFXD05095 xDetect CIE Door Large 256 Zone Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment	378q/04

7.10.1 Outputs to fire protection equipment - Output type A

7.10.2 Outputs to fire protection equipment - Output type B

7.10.3 Outputs to fire protection equipment - Output type C

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm Counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Certificate No: 378q-(cl-2) to EN 54-2:1997 + A1:2006 , EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
CXD01020	Cooper 1-2 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards) EFXD05082 xDetect CIE Backplane Small Enclosure EFXD05053 xDetect CIE Int. Single PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05091 xDetect CIE Door Small HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter	378q/01

	8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
CXD01040	Cooper 1-4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05092 xDetect CIE Door Large HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378q/02

Certificate No: 378q-(cl-3) to EN 54-2:1997 + A1:2006 , EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
JXD01020	JSB 1-2 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards) EFXD05082 xDetect CIE Backplane Small Enclosure EFXD05053 xDetect CIE Int. Single PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05091 xDetect CIE Door Small HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	378q/01
JXD01040	JSB 1-4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card	378q/02

EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs

36-A780 xDetect HMI

26-A470 xDetect HMI Screen Module

EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:

EFXD05040 xDetect Network Card

Mechanical optional modules:

EFXD05092 xDetect CIE Door Large HMI Only

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire protection equipment - Output type A

7.10.2 Outputs to fire protection equipment - Output type B

7.10.3 Outputs to fire protection equipment - Output type C

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm Counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Certificate No: 378q-(cl-4) to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
MXD01020	Menvier 1-2 Loop Analogue Addressable Control and Indicating Equipment	378q/01
	Incorporating the following modules:	
	EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards)	
	EFXD05082 xDetect CIE Backplane Small Enclosure	
	EFXD05053 xDetect CIE Int. Single PSE backplane	
	EFXD05080 xDetect CIE Panel Gateway Card	
	EFXD05030 xDetect Programmable IO Card	
	EFXD05020 xDetect Sounder Circuit Card 2 Outputs	
	36-A780 xDetect HMI	
	26-A470 xDetect HMI Screen Module	

EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:

EFXD05040 xDetect Network Card

Mechanical optional modules:

EFXD05091 xDetect CIE Door Small HMI Only

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire protection equipment - Output type A

7.10.2 Outputs to fire protection equipment - Output type B

7.10.3 Outputs to fire protection equipment - Output type C

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm Counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

MXD01040 Menvier 1-4 Loop Analogue Addressable Control and Indicating Equipment 378q/02

Incorporating the following modules:

EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards)

EFXD05081 xDetect CIE Backplane Large Enclosure

EFXD05052 xDetect CIE Int. Dual PSE backplane

EFXD05080 xDetect CIE Panel Gateway Card

EFXD05030 xDetect Programmable IO Card
EFXD05020 xDetect Sounder Circuit Card 2 Outputs

36-A780 xDetect HMI

26-A470 xDetect HMI Screen Module

EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:

EFXD05040 xDetect Network Card

Mechanical optional modules:

EFXD05092 xDetect CIE Door Large HMI Only

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire protection equipment - Output type A

7.10.2 Outputs to fire protection equipment - Output type B

7.10.3 Outputs to fire protection equipment - Output type C

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm Counter

8.3 Fault signals from points

8.4 Total loss of the power supply

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Notes:
1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

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Certificate No: 714h to

Product Name	Description	LPCB Ref. No
CF2000	Analogue Addressable 2 Loop Control and Indicating Equipment	714h/02
	Incorporating the following units:	
	PR202-50-2206 Main motherboard	
	PR202-50-2205 Display board	
	PR202-50-2209 Power supply board	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm device(s)	
	7.9.1 Output to fire alarm routing equipment	

	7.10.1 Output to automatic fire protection equipment (Type A) 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal (Type C) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. The scope of approval does not include the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
DF2000	Analogue Addressable 2 Loop Control and Indicating Equipment Incorporating the following units: PR202-50-2206 Main motherboard PR202-50-2205 Display board PR202-50-2209 Power supply board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment (Type A) 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal (Type C) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. The scope of approval does not include the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	714h/02
FX2000	Analogue Addressable 2 Loop Control and Indicating Equipment Incorporating the following units: PR202-50-2206 Main motherboard PR202-50-2205 Display board PR202-50-2209 Power supply board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment (Type A) 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal (Type C) 7.13 Alarm counter	714h/02

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of approval does not include the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 714w to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
CF3000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment	714w/01
	Incorporating the following units:	
	ADF6 Back Assembled back box	
	YPCB2153 Motherboard PCB	
	YPCB2147 PSU PCB	
	YPCB2148 2 Loop Card (2 off)	
	ADF6Screen Touch Screen	
	ZPCB2185 Complete Display + Micro PCB	
	ADF6 DISPCOVER Display PCB Cover	
	ADF6FACIA Front Moulding	
	ADF6PRINTDOOR Printer Door Moulding	
	BAT-NP12-12 Batteries (2 off)	
	ADF6HINGE Door Hinges	
	Incorporating the following optional modules:	
	ADF6OPFACIA Optional Anti Tamper Cover	
	ADF6PRINTER Printer	
	YPCB2187 Fire Brigade Interface	
	YPCB2137 Micro Display card	
	YPCB2319 Sounder loop card	
	YPCB2433 FRE/FPE loop card	
	YPCB2222 Loop splitter card	
	YPCB2145LED LED board	
	YPCB2202 Single channel Network card	
	YPCBNCDRUL Dual channel Network card	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm device(s)	
	7.9.1 Output to fire alarm routing equipment	
	7.10.1 Output to automatic fire protection equipment (Type A)	
	7.10.2 Output to automatic fire protection equipment (Type B)	
	7.11 Delays to outputs	
	7.12.3 Dependencies on more than one alarm signal (Type C)	
	7.13 Alarm counter	

	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each address point	
	10 Test condition	
	Notes:	
	1. The scope of approval does not include the network functionality.	
	2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
DF6000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment	714w/01
	Incorporating the following units:	
	ADF6 Back Assembled back box	
	YPCB2153 Motherboard PCB	
	YPCB2147 PSU PCB	
	YPCB2148 2 Loop Card (2 off)	
	ADF6Screen Touch Screen	
	ZPCB2185 Complete Display + Micro PCB	
	ADF6 DISPCOVER Display PCB Cover	
	ADF6FACIA Front Moulding	
	ADF6PRINTDOOR Printer Door Moulding	
	BAT-NP12-12 Batteries (2 off)	
	ADF6HINGE Door Hinges	
	Incorporating the following optional modules:	
	ADF6OPFACIA Optional Anti Tamper Cover	
	ADF6PRINTER Printer	
	YPCB2187 Fire Brigade Interface	
	YPCB2137 Micro Display card	
	YPCB2319 Sounder loop card	
	YPCB2433 FRE/FPE loop card	
	YPCB2222 Loop splitter card	
	YPCB2145LED LED board	
	YPCB2202 Single channel Network card	
	YPCBNCDRUL Dual channel Network card	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm device(s)	
	7.9.1 Output to fire alarm routing equipment	
	7.10.1 Output to automatic fire protection equipment (Type A)	
	7.10.2 Output to automatic fire protection equipment (Type B)	
	7.11 Delays to outputs	
	7.12.3 Dependencies on more than one alarm signal (Type C)	
	7.13 Alarm counter	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each address point	
	10 Test condition	
	Notes:	
	1. The scope of approval does not include the network functionality.	

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

COP3000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment	714w/01

Incorporating the following units:

ADF6 Back Assembled back box

YPCB2153 Motherboard PCB

YPCB2147 PSU PCB

YPCB2148 2 Loop Card (2 off)

ADF6Screen Touch Screen

ZPCB2185 Complete Display + Micro PCB

ADF6 DISPCOVER Display PCB Cover

ADF6FACIA Front Moulding

ADF6PRINTDOOR Printer Door Moulding

BAT-NP12-12 Batteries (2 off)

ADF6HINGE Door Hinges

Incorporating the following optional modules:

ADF6OPFACIA Optional Anti Tamper Cover

ADF6PRINTER Printer

YPCB2187 Fire Brigade Interface

YPCB2137 Micro Display card

YPCB2319 Sounder loop card

YPCB2433 FRE/FPE loop card

YPCB2222 Loop splitter card

YPCB2145LED LED board

YPCB2202 Single channel Network card

YPCBNCDRUL Dual channel Network card

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment (Type A)

7.10.2 Output to automatic fire protection equipment (Type B)

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal (Type C)

7.13 Alarm counter

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of approval does not include the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FX6000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment	714w/01

Incorporating the following units:

ADF6 Back Assembled back box

YPCB2153 Motherboard PCB

YPCB2147 PSU PCB

YPCB2148 2 Loop Card (2 off)

ADF6Screen Touch Screen

ZPCB2185 Complete Display + Micro PCB

ADF6 DISPCOVER Display PCB Cover

ADF6FACIA Front Moulding

ADF6PRINTDOOR Printer Door Moulding

BAT-NP12-12 Batteries (2 off)

ADF6HINGE Door Hinges

Incorporating the following optional modules:

ADF6OPFACIA Optional Anti Tamper Cover

ADF6PRINTER Printer

YPCB2187 Fire Brigade Interface

YPCB2137 Micro Display card

YPCB2319 Sounder loop card

YPCB2433 FRE/FPE loop card

YPCB2222 Loop splitter card

YPCB2145LED LED board

YPCB2202 Single channel Network card

YPCBNCDRUL Dual channel Network card

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment (Type A)

7.10.2 Output to automatic fire protection equipment (Type B)

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal (Type C)

7.13 Alarm counter

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of approval does not include the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 714x-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006 EN 54-16:2008

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Eaton Enterprise	Rack Mount VACIE	714x/01
	Incorporating any of the following modules:	
	VAR Series Routers:	

EF-VAR4(EN54) Router 4x4 DSP - EN54

EF-VIPEDIA-12 Series Routers:

EF-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EF-VIPEDIA-12 Optional modules:

EF-VIPEDIA-NET VIPEDIA-12 Network Card

EF-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EF-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations

EF-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

EF-V2000 Amplifier Frame: EF-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

EF-D500 Amplifier Module 500w

EF-D150 Amplifier Module 150w

Amplifier interfaces for EF-V2000 mainframe:

EF-LSZDC Dual Line surveillance interface

EF-V2000-STBY V2000 Standby Interface

EF-V400 Amplifier frame: EF-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:

EF-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers

EF-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers

Optional modules:

EF-EMS01 (MK2) Emergency microphone station - All call

EF-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EF-EMS10 Emergency microphone station - 10 Button

EF-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EF-EMS20 Emergency microphone station - 20 Button

EF-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EF-EMS50 Emergency microphone station - 50 Button

EF-EMX30 Expansion module for EF-EMS20 - 30 Button

EF-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EF-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EF-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EF-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EF-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EF-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EF-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EF-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EF-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EF-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EF-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EF-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EF-MPX10 Microphone expansion module for EF-MPS01 - 10 Button

EF-MPS01-MB Wall mount bracket kit for EF-MPS01

EF-MPX10-MB Wall mount bracket kit for EF-MPS10 - EF-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10 Voice Alarm Manual control (Except on EF-VAR routers)

12 Emergency microphone(s)

13.14 Redundant power amplifiers

EFDAU2000	Wall Mounting VACIE	714x/02

Incorporating the following:

EFDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces

Optional modules:

EF-D500 Amplifier Module 500w

EF-D150 Amplifier Module 150w

EF-LSZDC Dual Line surveillance interface

EF-V2000-STBY V2000 Standby Interface

EF-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

EF-VIPEDIA-12 Optional Modules:

EF-VIPEDIA-NET Vipedia-12 Network Card

EF-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EF-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations

EF-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

Optional Emergency Microphones:

EF-EMS01 (MK2) Emergency microphone station - All call

EF-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EF-EMS10 Emergency microphone station - 10 Button

EF-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EF-EMS20 Emergency microphone station - 20 Button

EF-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EF-EMS50 Emergency microphone station - 50 Button

EF-EMX30 Expansion module for EF-EMS20 - 30 Button

EF-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EF-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EF-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EF-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EF-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EF-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EF-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EF-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EF-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EF-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EF-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EF-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EF-MPX10 Microphone expansion module for EF-MPS01 - 10 Button

EF-MPS01-MB Wall mount bracket kit for EF-MPS01

EF-MPX10-MB Wall mount bracket kit for EF-MPS10 - EF-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10.0 Voice Alarm Manual control

12.0 Emergency microphone(s)

13.14 Redundant power amplifiers

Certificate No: 714x-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006 EN 54-16:2008

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Eaton Cooper Enterprise	Rack Mount VACIE	714x/01
	Incorporating any of the following modules:	
	VAR Series Routers:	
	EFC-VAR4(EN54) Router 4x4 DSP - EN54	
	EFC-VIPEDIA-12 Series Routers:	
	EFC-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router	
	EFC-VIPEDIA-12 Optional modules:	
	EFC-VIPEDIA-NET VIPEDIA-12 Network Card	
	EFC-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS	
	Adaptors:	
	EFC-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations	
	EFC-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through	
	EFC-V2000 Amplifier Frame: EFC-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces	
	D Series amplifiers:	
	EFC-D500 Amplifier Module 500w	
	EFC-D150 Amplifier Module 150w	
	Amplifier interfaces for EFC-V2000 mainframe:	
	EFC-LSZDC Dual Line surveillance interface	
	EFC-V2000-STBY V2000 Standby Interface	
	EFC-V400 Amplifier frame: EFC-V400 Amplifier frame for housing M series amplifiers and	

amplifier interfaces

Power supply:

EFC-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers

EFC-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers

Optional modules:

EFC-EMS01 (MK2) Emergency microphone station - All call

EFC-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFC-EMS10 Emergency microphone station - 10 Button

EFC-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFC-EMS20 Emergency microphone station - 20 Button

EFC-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFC-EMS50 Emergency microphone station - 50 Button

EFC-EMX30 Expansion module for EFC-EMS20 - 30 Button

EFC-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFC-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFC-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFC-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EFC-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFC-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EFC-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFC-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EFC-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFC-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EFC-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFC-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EFC-MPX10 Microphone expansion module for EFC-MPS01 - 10 Button

EFC-MPS01-MB Wall mount bracket kit for EFC-MPS01

EFC-MPX10-MB Wall mount bracket kit for EFC-MPS10 - EFC-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10 Voice Alarm Manual control (Except on EFC-VAR routers)

12 Emergency microphone(s)

13.14 Redundant power amplifiers

EFDAU2000	Wall Mounting VACIE	714x/02

Incorporating the following:

EFCDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces

Optional modules:

EFC-D500 Amplifier Module 500w

EFC-D150 Amplifier Module 150w

EFC-LSZDC Dual Line surveillance interface

EFC-V2000-STBY V2000 Standby Interface

EFC-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

EFC-VIPEDIA-12 Optional Modules:

EFC-VIPEDIA-NET Vipedia-12 Network Card

EFC-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFC-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations

EFC-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

Optional Emergency Microphones:

EFC-EMS01 (MK2) Emergency microphone station - All call

EFC-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFC-EMS10 Emergency microphone station - 10 Button

EFC-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFC-EMS20 Emergency microphone station - 20 Button

EFC-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFC-EMS50 Emergency microphone station - 50 Button

EFC-EMX30 Expansion module for EFC-EMS20 - 30 Button

EFC-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFC-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFC-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFC-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EFC-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFC-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EFC-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFC-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EFC-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFC-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EFC-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFC-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EFC-MPX10 Microphone expansion module for EFC-MPS01 - 10 Button

EFC-MPS01-MB Wall mount bracket kit for EFC-MPS01

EFC-MPX10-MB Wall mount bracket kit for EFC-MPS10 - EFC-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10.0 Voice Alarm Manual control

12.0 Emergency microphone(s)

13.14 Redundant power amplifiers

Certificate No: 714x-(cl-3) to EN 54-4:1997 + A1:2002 + A2:2006 EN 54-16:2008

Product Name	Description	LPCB Ref. No
Eaton JSB Enterprise	Rack Mount VACIE	714x/01
	Incorporating any of the following modules:	
	VAR Series Routers:	
	EFJ-VAR4(EN54) Router 4x4 DSP - EN54	
	EFJ-VIPEDIA-12 Series Routers:	
	EFJ-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router	
	EFJ-VIPEDIA-12 Optional modules:	
	EFJ-VIPEDIA-NET VIPEDIA-12 Network Card	
	EFJ-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS	
	Adaptors:	
	EFJ-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations	
	EFJ-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through	
	EFJ-V2000 Amplifier Frame: EFJ-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces	
	D Series amplifiers:	
	EFJ-D500 Amplifier Module 500w	
	EFJ-D150 Amplifier Module 150w	
	Amplifier interfaces for EFJ-V2000 mainframe:	
	EFJ-LSZDC Dual Line surveillance interface	
	EFJ-V2000-STBY V2000 Standby Interface	
	EFJ-V400 Amplifier frame: EFJ-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces	
	Power supply:	
	EFJ-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers	
	EFJ-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers	
	Optional modules:	
	EFJ-EMS01 (MK2) Emergency microphone station - All call	
	EFJ-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock	
	EFJ-EMS10 Emergency microphone station - 10 Button	
	EFJ-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock	
	EFJ-EMS20 Emergency microphone station - 20 Button	
	EFJ-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock	
	EFJ-EMS50 Emergency microphone station - 50 Button	
	EFJ-EMX30 Expansion module for EFJ-EMS20 - 30 Button	
	EFJ-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic	
	EFJ-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic	
	EFJ-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic	
	EFJ-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic	
	EFJ-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic	

EFJ-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EFJ-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFJ-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EFJ-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFJ-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EFJ-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFJ-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EFJ-MPX10 Microphone expansion module for EFJ-MPS01 - 10 Button

EFJ-MPS01-MB Wall mount bracket kit for EFJ-MPS01

EFJ-MPX10-MB Wall mount bracket kit for EFJ-MPS10 - EFJ-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10 Voice Alarm Manual control (Except on EFJ-VAR routers)

12 Emergency microphone(s)

13.14 Redundant power amplifiers

EFJDAU2000	Wall Mounting VACIE	714x/02

Incorporating the following:

EFJDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces

Optional modules:

EFJ-D500 Amplifier Module 500w

EFJ-D150 Amplifier Module 150w

EFJ-LSZDC Dual Line surveillance interface

EFJ-V2000-STBY V2000 Standby Interface

EFJ-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

EFJ-VIPEDIA-12 Optional Modules:

EFJ-VIPEDIA-NET Vipedia-12 Network Card

EFJ-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFJ-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations

EFJ-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

Optional Emergency Microphones:

EFJ-EMS01 (MK2) Emergency microphone station - All call

EFJ-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFJ-EMS10 Emergency microphone station - 10 Button

EFJ-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFJ-EMS20 Emergency microphone station - 20 Button

EFJ-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFJ-EMS50 Emergency microphone station - 50 Button

EFJ-EMX30 Expansion module for EFJ-EMS20 - 30 Button

EFJ-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFJ-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFJ-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFJ-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EFJ-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFJ-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EFJ-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFJ-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EFJ-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFJ-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EFJ-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFJ-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EFJ-MPX10 Microphone expansion module for EFJ-MPS01 - 10 Button

EFJ-MPS01-MB Wall mount bracket kit for EFJ-MPS01

EFJ-MPX10-MB Wall mount bracket kit for EFJ-MPS10 - EFJ-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10.0 Voice Alarm Manual control

12.0 Emergency microphone(s)

13.14 Redundant power amplifiers

Certificate No: 714x-(cl-4) to EN 54-4:1997 + A1:2002 + A2:2006 EN 54-16:2008

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
Eaton Menvier Enterprise	Rack Mount VACIE	714x/01
	Incorporating any of the following modules:	
	VAR Series Routers:	
	EFM-VAR4(EN54) Router 4x4 DSP - EN54	
	EFM-VIPEDIA-12 Series Routers:	
	EFM-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router	
	EFM-VIPEDIA-12 Optional modules:	
	EFM-VIPEDIA-NET VIPEDIA-12 Network Card	
	EFM-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS	
	Adaptors:	
	EFM-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations	
	EFM-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through	
	EFM-V2000 Amplifier Frame: EFM-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces	
	D Series amplifiers:	
	EFM-D500 Amplifier Module 500w	

EFM-D150 Amplifier Module 150w

Amplifier interfaces for EFM-V2000 mainframe:

EFM-LSZDC Dual Line surveillance interface

EFM-V2000-STBY V2000 Standby Interface

EFM-V400 Amplifier frame: EFM-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:

EFM-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers

EFM-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers

Optional modules:

EFM-EMS01 (MK2) Emergency microphone station - All call

EFM-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFM-EMS10 Emergency microphone station - 10 Button

EFM-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFM-EMS20 Emergency microphone station - 20 Button

EFM-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFM-EMS50 Emergency microphone station - 50 Button

EFM-EMX30 Expansion module for EFM-EMS20 - 30 Button

EFM-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFM-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFM-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFM-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EFM-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFM-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EFM-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFM-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EFM-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFM-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EFM-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFM-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EFM-MPX10 Microphone expansion module for EFM-MPS01 - 10 Button

EFM-MPS01-MB Wall mount bracket kit for EFM-MPS01

EFM-MPX10-MB Wall mount bracket kit for EFM-MPS10 - EFM-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10 Voice Alarm Manual control (Except on EFM-VAR routers)

12 Emergency microphone(s)

13.14 Redundant power amplifiers

EFMDAU2000	Wall Mounting VACIE	714x/02

Incorporating the following:

EFMDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces

Optional modules:

EFM-D500 Amplifier Module 500w

EFM-D150 Amplifier Module 150w

EFM-LSZDC Dual Line surveillance interface

EFM-V2000-STBY V2000 Standby Interface

EFM-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

EFM-VIPEDIA-12 Optional Modules:

EFM-VIPEDIA-NET Vipedia-12 Network Card

EFM-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFM-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations

EFM-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

Optional Emergency Microphones:

EFM-EMS01 (MK2) Emergency microphone station - All call

EFM-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFM-EMS10 Emergency microphone station - 10 Button

EFM-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFM-EMS20 Emergency microphone station - 20 Button

EFM-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFM-EMS50 Emergency microphone station - 50 Button

EFM-EMX30 Expansion module for EFM-EMS20 - 30 Button

EFM-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFM-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFM-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFM-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

EFM-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFM-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

EFM-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFM-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

EFM-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFM-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

EFM-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFM-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

EFM-MPX10 Microphone expansion module for EFM-MPS01 - 10 Button

EFM-MPS01-MB Wall mount bracket kit for EFM-MPS01

EFM-MPX10-MB Wall mount bracket kit for EFM-MPS10 - EFM-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10.0 Voice Alarm Manual control

12.0 Emergency microphone(s)

13.14 Redundant power amplifiers

Elite Security Products (ESP)

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Certificate No: 331q-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
MAGDUO2	2 Zone Twin Wire Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card. Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition. Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	331q/06
MAGDUO4	4 Zone Twin Wire Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card. Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition. Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	331q/07
MAGDUO8	8 Zone Twin Wire Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card 10-0087 4 Zone Expansion Card Certified with the following options with requirements from EN54-2:	331q/08

7.8 Output to fire alarm devices

7.10.1 Output type A to fire protection equipment

7.11 Delays to outputs

7.12.1 Type A dependency on more than one alarm signal

10 Test condition.

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

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Certificate No: 1213a to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-4: 1998 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
500-0205A Odyssey	Two loop, 32 Zone analogue addressable control and indicating equipment	1213a/02
	Incorporating the following units:	
	BRD82MBA Main Termination Board	
	BRD82ZICC Zone Interface & Control Card	
	PSU2397 Power Supply Unit	
	8210-0001 2nd loop activation Key	
	BRD82LSD Loop Activation Board	
	ASS82ZICC Zone Indicator & LCD Assembly (8210)	
	Certificated with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routing equipment	
	7.11 Delay to outputs	
	7.12.1 Dependencies on more than one alarm signal Type A	
	7.12.2 Dependencies on more than one alarm signal Type B	
	7.12.3 Dependencies on more than one alarm signal Type C	
	8.3 Fault signal from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each addressable point	
	10 Test condition	
	Note:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	
500-0105A Odyssey	32 Zone analogue addressable control and indicating equipment	1213a/01
	Incorporating the following units:	
	BRD82MBA Main Termination Board	
	BRD82ZICC Zone Interface & Control Card	
	PSU2397 Power Supply Unit	

1213a/01

ASS82ZICC Zone Indicator & LCD Assembly (8210)

Certificated with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

8.3 Fault signal from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each addressable point

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 1213b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-4: 1998 + A1: 2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
510-0108A Odyssey Plus	One loop, 32 Zone analogue addressable control and indicating equipment.	1213b/01

Incorporating as modular units:

BRD68BPSC4-A FFP Brigade & Power supply control board (8610)

BRD86DLTB4-A FFP Dual loop termination board (8610)

BRD86FPB5-B FFP Front panel board EN54 (8610)

BRD86MBA4-A FFP Main board LCD (8610)

BRD86MCPU4-B FFP Main 64MB CPU card (8610)

BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

PSU1888 Power supply 5A (8610)

Optional Modules:

BRD43EZC2-A 8 Zone conventional module (4310)

BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routine equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal Type A

7.12.2 Dependencies on more than one alarm signal Type B

7.12.3 Dependencies on more than one alarm signal Type C

8.3 Fault signal from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each addressable point

	10 Test condition	
510-0208A Odyssey Plus	Two loop, 32 Zone analogue addressable control and indicating equipment.	1213b/02
	Incorporating as modular units:	
	BRD68BPSC4-A FFP Brigade & Power supply control board (8610)	
	BRD86DLTB4-A FFP Dual loop termination board (8610)	
	BRD86FPB5-B FFP Front panel board EN54 (8610)	
	BRD86MBA4-A FFP Main board LCD (8610)	
	BRD86MCPU4-B FFP Main 64MB CPU card (8610)	
	BRD86SCB3-A FFP Slave CPU card (8610)	
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	
	PSU1888 Power supply 5A (8610)	
	Optional Modules:	
	BRD43EZC2-A 8 Zone conventional module (4310)	
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routine equipment	
	7.11 Delay to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	8.3 Fault signal from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each addressable point	
	10 Test condition	
510-0308A Odyssey Plus	Three loop, 32 Zone analogue addressable control and indicating equipment	1213b/03
	Incorporating as modular units:	
	BRD68BPSC4-A FFP Brigade & Power supply control board (8610)	
	BRD86DLTB4-A FFP Two Dual loop termination boards (8610)	
	BRD86FPB5-B FFP Front panel board EN54 (8610)	
	BRD86MBA4-A FFP Main board LCD (8610)	
	BRD86MCPU4-B FFP Main 64MB CPU card (8610)	
	BRD86SCB3-A FFP Two Slave CPU cards (8610)	
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	
	PSU1888 Power supply 5A (8610)	
	Optional Modules:	
	BRD86DLTB4-A FFP Dual loop termination board (8610)	
	BRD86SCB3-A FFP Slave CPU cards (8610)	
	BRD43EZC2-A 8 Zone conventional module (4310)	
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	

	7.9.2 Alarm confirmation input from fire alarm routine equipment	
	7.11 Delay to outputs	
	7.12.1 Dependencies on more than one alarm signal Type A	
	7.12.2 Dependencies on more than one alarm signal Type B	
	7.12.3 Dependencies on more than one alarm signal Type C	
	8.3 Fault signal from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each addressable point	
	10 Test condition	
	Incorporating as modular units:	
	BRD68BPSC4-A FFP Brigade & Power supply control board (8610)	
	BRD86DLTB4-A FFP Two Dual loop termination boards (8610)	
	BRD86FPB5-B FFP Front panel board EN54 (8610)	
	BRD86MBA4-A FFP Main board LCD (8610)	
	BRD86MCPU4-B FFP Main 64MB CPU card (8610)	
	BRD86SCB3-A FFP Two Slave CPU cards (8610)	
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	
	PSU1888 Power supply 5A (8610)	
	Optional Modules:	
	BRD86DLTB4-A FFP Dual loop termination board (8610)	
	BRD86SCB3-A FFP Slave CPU cards (8610)	
	BRD43EZC2-A 8 Zone conventional module (4310)	
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routine equipment	
	7.11 Delay to outputs	
	7.12.1 Dependencies on more than one alarm signal Type A	
	7.12.2 Dependencies on more than one alarm signal Type B	
	7.12.3 Dependencies on more than one alarm signal Type C	
	8.3 Fault signal from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each addressable point	
	10 Test condition	
510-0408A Odyssey Plus	Four loop, 32 Zone analogue addressable control and indicating equipment	1213b/04
	Incorporating as modular units:	
	BRD68BPSC4-A FFP Brigade & Power supply control board (8610)	
	BRD86DLTB4-A FFP Two Dual loop termination boards (8610)	
	BRD86FPB5-B FFP Front panel board EN54 (8610)	
	BRD86MBA4-A FFP Main board LCD (8610)	
	BRD86MCPU4-B FFP Main 64MB CPU card (8610)	
	BRD86SCB3-A FFP Three Slave CPU cards (8610)	

BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

PSU1888 Power supply 5A (8610)

Optional Modules:

BRD86DLTB4-A FFP Dual loop termination board (8610)

BRD86SCB3-A FFP Slave CPU cards (8610)

BRD43EZC2-A 8 Zone conventional module (4310)

BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routine equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal Type A

7.12.2 Dependencies on more than one alarm signal Type B

7.12.3 Dependencies on more than one alarm signal Type C

8.3 Fault signal from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each addressable point

10 Test condition

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Certificate No: 331q to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
505-0002	TWINFLEXpro, 2 Zone Twin Wire control and indicating equipment Incorporating: 10-0067 Main Processor Card. Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition.	331q/06
505-0004	TWINFLEXpro, 4 Zone Twin Wire control and indicating equipment Incorporating: 10-0067 Main Processor Card. Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices	331q/07

	7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition.	
505-0008	TWINFLEXpro, 8 Zone Twin Wire control and indicating equipment Incorporating: 10-0067 Main Processor Card 10-0087 4 Zone expansion card. Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition.	331q/08
505-0008C	TWINFLEXpro, 4 Zone Twin Wire and 4 Zone Conventional Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card 10-0088 4 Zone Conventional Expansion Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition. Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	331q/09
540-0001	FIKE-CIE-A-400 Two Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: 10-0160 Front LCD and buttons board 10-0161 Backboard incorporating Loop 1 and battery charger LRS-150F-32 Meanwell Power Supply Unit Including the following optional modules: 10-0162 Plug-in loop 2 card Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition	331q/11

Note

This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

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Certificate No: 1395c-(cl-1) to EN 54-2:1997 + A1: 2006 & EN 54-4:1997 +A1: 2002 + A2: 2006
Certificate No: 1450g-(cl-1) to EN 54-2:1997 + A1: 2006 & EN 54-4:1997 +A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
FF FCP500	1-4 Loops Analogue Addressable Fire Alarm Control Panel	1450g/01
	Incorporating the following modules:	
	TC5109-Main Main board	
	TC5109-Loop Loop board	
	TC5109-XZB Loop base board	
	TC5109-Key Keypad board	
	TC5109-ZX Zone and FPE indicator board	
	TC5109-LCD Display board	
	TC5109-SCR Indicator board	
	TC5120-RS485 RS485 board	
	TC5000-MAIN-CAN CAN board	
	TC5109-LB1 Filter board 1	
	TC5109-LB2 Filter board 2	
	TC5109-POW Power Supply Equipment	
	Certified with the following options with requirements:	
	7.8 Output to fire alarm device(s)	
	7.10.1 Output to automatic fire protection equipment Type A	
	7.10.2 Output to automatic fire protection equipment Type B	
	7.10.3 Output to automatic fire protection equipment Type C	
	8.3 Fault signals from point	
	9.5 Disablement of addressable points	
	Notes:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
	2. Scope of approval does not include the operation of the network functionality.	

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Certificate No: 1174j-(cl-3) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
FST-6847	4 Loop Analogue Addressable Control and Indicating Equipment	1174j/01
	Incorporating the following modules:	
	VSL2.908.146 Main Board	
	VSL2.908.149 Indication board	
	VSL2.908.155 Terminal board	
	VSL2.908.162 Control Board	
	VSL2.908.153 Loop Card	
	VSL2.908.152 I/O Board	
	VSL2.908.169 Power Board	
	VSL7-820-150 Zone Board	
	VSL7-820-154 Network Card	
	LRS-150-24 MEAN-WELL Power Supply module	
	Certified with the following option with requirements for EN54-2:	
	7.8 Output to fire alarm devices	
	7.10.1 Outputs to fire protection equipment (Type A)	
	7.10.2 Outputs to fire protection equipment (Type B)	
	7.10.3 Outputs to fire protection equipment (Type C)	
	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal (Type A dependency)	
	7.12.2 Dependencies on more than one alarm signal (Type B dependency)	
	7.12.3 Dependencies on more than one alarm signal (Type C dependency)	
	7.13 Alarm Counter	
	9.5 Disablement of addressable point	
	10 Test condition	
	Notes:	
	1. The scope of the approval does not include the operation of the network functionality	
	2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	

Firesafe

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Certificate No: 176b-(cl-1) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
FCFP2N	Two zone conventional control and indicating equipment	176b/07
	Incorporating the units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724851 2 Zone main control board	

	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
FCFP4N	Four zone conventional control and indicating equipment Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/08
FCFP8N	Eight zone conventional control and indicating equipment Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724855 8 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/09

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Certificate No: 548p-(cl-5) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
FX-IFP8	Intelligent 8 Loop, 140 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units:	548p/02

SB-800 Indication board

LCIFP8 Loop board

PB-800 Power board

ZP-800 ZCP board

KB-800 Keypad board

MB-800 Main board

MO-800 Mother board

PS-800 Switch Mode Power Supply SP-320-27

Incorporating as optional modular units:

FX9935 USB communication board

FX9935Modbus RS232 ModBus Communication Card

FX9945RP Repeater Card

FX9945A Class A RS485 Network Card

FX9965 Class B CAN Network Card

FX9965A Class A CAN Network Card

FX9904 Printer Interface Card

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.9.2 Alarm confirmation input from fire routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13

FX102A 2 Zone Conventional Control and Indicating Equipment 548p/03

Incorporating the following modules:

FC-102A/ F7.843.399 Membrane

CB-102A/ F2.908.1719 Control board with integrated PSE

DB-102A/ F2.908.1722 Display board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

FX104A — 4 Zone Conventional Control and Indicating Equipment — 548p/04

Incorporating the following modules:

FC-104A/ F7.843.400 Membrane

CB-104A/ F2.908.1718 Control board with integrated PSE

DB-104A/ F2.908.1721 Display board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

FX108A — 8 Zone Conventional Control and Indicating Equipment — 548p/05

Incorporating the following modules:

FC-108A/ F7.843.401 Membrane

CB-108A/ F2.908.1675 Control board with integrated PSE

DB-108A/ F2.908.1720 Display board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

FX116A — 16 Zone Conventional Control and Indicating Equipment — 548p/06

Incorporating the following modules:

FC-116A/ F7.843.402 Membrane

CB-116A/ F2.908.1724 Control board with integrated PSE

DB-116A/ F2.908.1676 Display board

XB-116A/ F7.820.1677 Expansion board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

FX200N-2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment	548p/07

Incorporating the following units:

MB-220N Main board

PS-220N Power management board

OX-220 Terminal board

ZP-220 Zone indication and intervention board

SB-220 Switch board

TB-220N Loop interface board

FX200LC Loop board

PDF-150-27.5 Powered SMPS 100-240V power supply

Incorporating as optional modular units:

FX9930 RS-232 board for configuration

FX9901A Printer module kit

FX9960A CAN network card loop type board

FX9930ModBus RS232 Modbus interface card

Certified with the following options with requirements from EN 54-2:

7.8 Output to Fire Alarm Devices

7.10.1 Output to automatic Fire Protection Equipment Type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

Note:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13

FX200N-1	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment	548p/11

Incorporating the following units:

MB-220N Main board

PS-220N Power management board

OX-220 Terminal board

ZP-220 Zone indication and intervention board

SB-220 Switch board

TB-220N Loop interface board

PDF-150-27.5 Powered SMPS 100-240V power supply

Incorporating as optional modular units:

FX9930 RS-232 board for configuration

FX9901A Printer module kit

FX9960A CAN network card loop type board

FX9930ModBus RS232 Modbus interface card

Certified with the following options with requirements from EN 54 part 2:

7.8 Output to Fire Alarm Devices

7.10.1 Output to automatic Fire Protection Equipment Type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

Notes:

1. Can be converted to 2 loop by adding FX200LC Loop board

2. Scope of approval does not include the operation of the network functionality

3. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13

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Certificate No: 1426g-(cl-8) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006 , EN 54-2:1997 + A1:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
GAEC1004	Single Loop Analogue Addressable Control and Indicating Equipment	1426g/01
	Incorporating the following modules:	
	SEC3002_IO IO Board	
	SEC3002_B Monitoring Board (B Board)	

ZB-9100-A Main CPU Board (A Board)

PSE10_KZ Power Supply

SEC3002_QK Zone Indication Board

SEC3002_KEY Keyboard

SEC3002_FL1 Loop SPU Board

Incorporating the following optional modules:

SEC3002_COM Communication Board

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.10.1 Output type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN54-13.

2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 042bb to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
AS-2000	Two Loop Analogue Addressable Control and Indicating Equipment	042bb/01

Incorporating as modular units:

2434-824 Power supply

2434-710 Loop Processor Card

2434-833 Master Control Card

2434-825 Optical Network Card

2434-821 Message Store Card

2434-822 Mother board

2434-835 H.M.I

2434-840 Cold fire card

2434-796 Addressable speaker card (Optional Card)

2434-826 Addressable daughter speaker card (Optional Card)

2434-780 Audio Input Card (Optional Card)

2434-781 Audio Output Card (Optional Card)

Certified with the following options with requirements from EN 54 -2: 1997

7.8 Output to fire alarm devices

7.11 Delay to outputs

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Certificate No: 042bc to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Nano-24	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	042bc/01
Nano-24-SP	Single Loop Analogue Addressable Control and Indicating Equipment (Spanish Language Variant) Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	042bc/02
Nano-24-PO	Single Loop Analogue Addressable Control and Indicating Equipment (Portuguese Language Variant) Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface)	042bc/03

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

8.3 Fault signals from points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Certificate No: 042cb to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Vigilon CompactPlus	One to Two Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VCS-MCB-N PCB Assembly VIGILON COMPACT Network control VCS-PSU-N Power Supply Unit VCS-IDOOR-PLUS Display and Key card (DKC) COMPACT-LPC-EN Loop processor card COMPACT-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	042cb/01
Vigilon CompactPlus-PO	One to Two Loop Analogue Addressable Control and Indicating Equipment (Portuguese Language Variant) Incorporating the following modules: VCS-MCB-N PCB Assembly VIGILON COMPACT Network control VCS-PSU-N Power Supply Unit VCS-IDOOR-PLUS Display and Key card (DKC) COMPACT-LPC-EN Loop processor card COMPACT-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment	042cb/02

	7.10.1 Output type A 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
Vigilon CompactPlus-SP	One to Two Loop Analogue Addressable Control and Indicating Equipment (Spanish Language Variant) Incorporating the following modules: VCS-MCB-N PCB Assembly VIGILON COMPACT Network control VCS-PSU-N Power Supply Unit VCS-IDOOR-PLUS Display and Key card (DKC) COMPACT-LPC-EN Loop processor card COMPACT-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	042cb/03

Certificate No: 042cc to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
VIGPLUS-24	One to Four Loop Analogue Addressable Control and Indicating Panel Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly	042cc/01

	VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
VIGPLUS-24-NP	One to Four Loop Analogue Addressable Control and Indicating Panel (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	042cc/02
VIGPLUS-24-PO	One to Four Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card	042cc/03

	VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
VIGPLUS-24-SP	One to Four Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	042cc/04
VIGPLUS-72	One to Six Loop Analogue Addressable Control and Indicating Panel	042cc/05

	Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
VIGPLUS-72-PO	One to Six Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point	042cc/06

	10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
VIGPLUS-72-SP	One to Six Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	042cc/07
VIGPLUS-72-NP	One to Six Loop Analogue Addressable Control and Indicating Panel (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B	042cc/08

	7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
VIGPLUS-72-NP-PO	One to Six Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant) (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	042cc/09
VIGPLUS-72-NP-SP	One to Six Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant) (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment	042cc/10

7.10.1 Output type A

7.11 Delays to outputs

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

Certificate No: 567at-(cl-1) to

Control and indicating equipment

Product Name	Description	LPCB Ref. No
13270-02LB	2 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13	567at/01
13270-04LB	4 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13	567at/02
13270-08LB	8 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition 1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13	567at/03

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Certificate No: 1330h-(cl-5) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A1: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
GA7004	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Key Board 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output to fire protection equipment - Type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 9.5 Disablement of each address point 10 Test condition Notes: 1. The scope of the approval does not include the operation of the network functionality 2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	1330h/01

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Certificate No: 548p to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
GST-IFP8	Intelligent 8 loop, 140 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: SB-800 Indication board LCIFP8 Loop board PB-800 Power board	548p/02

ZP-800 ZCP board

KB-800 Keypad board

MB-800 Main board

MO-800 Mother board

PS-800 Switch Mode Power Supply SP-320-27

Incorporating the following optional modules:

P-9935 USB communication board

P-9935Modbus RS232 ModBus Communication Card

P-9945RP Repeater Card

P-9945A Class A RS485 Network Card

P-9965 Class B CAN Network Card

P-9965A Class A CAN Network Card

P-9904 Printer Interface Card

Optional language variants;

GST-IFP8-PT Portuguese language variant

GST-IFP8-HU Hungarian language variant

GST-IFP8-FR French language variant

GST-IFP8-IT Italian language variant

GST-IFP8-SP Spanish language variant

GST-IFP8-TK Turkish language variant

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.9.2 Alarm confirmation input from fire routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.

GST102A — 2 Zone Conventional Control and Indicating Equipment — 548p/03

Incorporating the following modules:

FC-102A/ F7.843.399 Membrane

CB-102A/ F2.908.1719 Control board with integrated PSE

DB-102A/ F2.908.1722 Display board

Incorporating the following optional modules:

GST102A-HK Traditional Chinese text variant

CF-102A/ F7.843.421 Membrane

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

GST104A — 4 Zone Conventional Control and Indicating Equipment — 548p/04

Incorporating the following modules:

FC-104A/ F7.843.400 Membrane

CB-104A/ F2.908.1718 Control board with integrated PSE

DB-104A/ F2.908.1721 Display board

Incorporating the following optional modules:

GST104A-HK Traditional Chinese text variant

CF-104A/ F7.843.422 Membrane

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

GST108A — 8 Zone Conventional Control and Indicating Equipment — 548p/05

Incorporating the following modules:

FC-108A/ F7.843.401 Membrane

CB-108A/ F2.908.1675 Control board with integrated PSE

DB-108A/ F2.908.1720 Display board

Incorporating the following optional modules:

GST108A-HK Traditional Chinese text variant

CF-108A/ F7.843.423 Membrane

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

GST116A	16 Zone Conventional Control and Indicating Equipment	548p/06

Incorporating the following modules:

FC-116A/ F7.843.402 Membrane

CB-116A/ F2.908.1724 Control board with integrated PSE

DB-116A/ F2.908.1676 Display board

XB-116A/ F7.820.1677 Expansion board

Incorporating the following optional modules:

GST116A-HK Traditional Chinese text variant

CF-116A/ F7.843.424 Membrane

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire routing equipment

7.11 Delays to outputs

10 Test condition

GST200N-2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment	548p/07

Incorporating the following units:

Incorporating the following units:

MB-220N Main board

PS-220N Power management board

OX-220 Terminal board

ZP-220 Zone indication and intervention board

SB-220 Switch board

TB-220N Loop interface board

LC200 Loop board

PDF-150-27.5 Powered SMPS 100-240V power supply

Incorporating the following optional modules

P-9930 RS-232 board for configuration

P-9901A Printer module kit

P-9960A CAN network card loop type board

P-9930ModBus RS232 Modbus interface card

Certified with the following options with requirements from EN 54-2:

7.8 Output to Fire Alarm Devices

7.10.1 Output to automatic Fire Protection Equipment Type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.

GST200N-1 Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment 548p/11

Incorporating the following units:

MB-220N Main board

PS-220N Power management board

OX-220 Terminal board

ZP-220 Zone indication and intervention board

SB-220 Switch board

TB-220N Loop interface board

PDF-150-27.5 Powered SMPS 100-240V power supply

Incorporating the following optional modules:

P-9930 RS-232 board for configuration

P-9901A Printer module kit

P-9960A CAN network card loop type board

P-9930ModBus RS232 Modbus interface card

Optional language variants:

GST200N-PT Portuguese language variant

GST200N-HU Hungarian language variant

GST200N-FR French language variant

GST200N-IT Italian language variant

GST200N-SP Spanish language variant

GST200N-TK Turkish language variant

GST200N-HK Traditional Chinese language variant

GST200N-RO Romanian language variant

Certified with the following options with requirements from EN 54-2:

7.8 Output to Fire Alarm Devices

7.10.1 Output to automatic Fire Protection Equipment Type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

Notes:

1. Can be converted to 2 loops by adding LC200 Loop board

2. Scope of approval does not include the operation of the network functionality

3. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.

GST-IFP4E	1-6 Loop Intelligent Analogue Addressable Control and Indicating Equipment	548p/13

Incorporating the following units:

SD-400E LCD Screen Driver Board

KB-400E Keypad Board

IB-400 Indicator Board

MP-401E CPU Card

MP-400 MCU Mounting Board

NC-400E NAC Card

MB-400E Mother Board

PF-200 Power Filter

PSU-250E Power Supply Unit Incorporating:

PB-400E Power Supply Board
PS-400E AC-DC Converter WSD-U250D27+30III

Incorporating the following optional modules:

LC-401E Single Loop Card

LC-402E Dual Loop Card

ZC-400E Zone Display and Control Board

P-9981E Zone Display Panel

P-9982E Zone Display and Control Panel

ZC-400FE Zone Display and Control Board

P-9981FE Zone Display Panel

P-9982FE Zone Display and Control Panel

P-9983EA Fiber-Optical Class A Network Card

P-9966EA CAN Class A Network Card

P-9956E-Modbus Modbus Card

PR-400B Thermal Printer (Ancillary)

Optional language variants:

IFP4E-LK-EN GST-IFP4E- Language Kit (English)

IFP4E-LK-IT GST-IFP4E- Language Kit (Italian)

IFP4E-LK-ES GST-IFP4E- Language Kit (Spanish)

IFP4E-LK-PT GST-IFP4E - Language Kit (Portuguese)

IFP4E-LK-AR GST-IFP4E - Language Kit (Arabic)

IFP4E-LK-TC GST-IFP4E - Language Kit (Traditional Chinese)

IFP4E-LK-FR GST-IFP4E - Language Kit (French)

IFP4E-LK-RU GST-IFP4E -Language Kit (Russian)

IFP4E-LK-HU GST-IFP4E - Language Kit (Hungarian)

IFP4E-LK-TR GST-IFP4E - Language Kit (Turkish)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.13 Alarm counter

8.3 Fault signals from points

8.4 Total loss of the power supply

9.5 Disablement of each address point

10 Test conditio

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

GST-NR2EC	Network Repeater External to Panel Connected to CAN Class A Network Card	548p/R01

Incorporating the following units:

IB-MNA2E Indicator Board

SD-NR2E LCD Screen Drive Board

MB-NR2EC Mother board

Optional language variants:

NR2E-LK-EN GST-NR2E Network Repeater Language Kit (English)

NR2E-LK-IT GST-NR2E Network Repeater Language Kit (Italian)

NR2E-LK-ES GST-NR2E Network Repeater Language Kit (Spanish)

NR2E-LK-PT GST-NR2E Network Repeater Language Kit (Portuguese)

NR2E-LK-AR GST-NR2E Network Repeater Language Kit (Arabic)

NR2E-LK-TC GST-NR2E Network Repeater Language Kit (Traditional Chinese)

NR2E-LK-FR GST-NR2E Network Repeater Language Kit (French)

NR2E-LK-RU GST-NR2E Network Repeater Language Kit (Russian)

NR2E-LK-HU GST-NR2E Network Repeater Language Kit (Hungarian)

NR2E-LK-TR GST-NR2E Network Repeater Language Kit (Turkish)

Notes:

1. Compatible with CIE - GST-IFP4E

GST-NR2EF	Network Repeater External to Panel Connected to Fiber-Optical Network Card	548p/R02

Incorporating the following units:

IB-MNA2E Indicator Board

SD-NR2E LCD Screen Drive Board

MB-NR2EF Mother board

Optional language variants:

NR2E-LK-EN GST-NR2E Network Repeater Language Kit (English)

NR2E-LK-IT GST-NR2E Network Repeater Language Kit (Italian)

NR2E-LK-ES GST-NR2E Network Repeater Language Kit (Spanish)

NR2E-LK-PT GST-NR2E Network Repeater Language Kit (Portuguese)

NR2E-LK-AR GST-NR2E Network Repeater Language Kit (Arabic)

NR2E-LK-TC GST-NR2E Network Repeater Language Kit (Traditional Chinese)

NR2E-LK-FR GST-NR2E Network Repeater Language Kit (French)

NR2E-LK-RU GST-NR2E Network Repeater Language Kit (Russian)

NR2E-LK-HU GST-NR2E Network Repeater Language Kit (Hungarian)

	NR2E-LK-TR GST-NR2E Network Repeater Language Kit (Turkish)
	Notes:
	1. Compatible with CIE - GST-IFP4E

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Certificate No: 810a to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 810m to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Eclipse	4 and 2 Zone conventional control and indicating equipment	810a/03
	ECL-2	
	Incorporating as modular units:	
	TPC A01- E2 Eclipse two zone main PCB applicable on 2 zone CIE only	
	TPC A02 ZoneFinder LED display PCB	
	PSM1.5 - 24 Power supply 1.5A rated	
	Certified with the following options with requirements from EN 54 Part 2:	
	7.8 Output to fire alarm devices	
	7.12.1 Dependency on more than one alarm signal type A	
	10 Test condition	
	ECL-4	
	Incorporating as modular units:	
	TPC A01- E4 Eclipse four zone main PCB applicable on 4 zone CIE only	
	TPC A02 Eclipse LED display PCB	
	PSM1.5 - 24 Power supply 1.5A rated	
	Certified with the following options with requirements from EN 54 Part 2:	
	7.8 Output to fire alarm devices	
	7.12.1 Dependency on more than one alarm signal type A	
	10 Test condition	
	Note:	
	1. This product approval does not constitute compliance with the fire	
	detection and alarm systems requirements of EN 54-13.	
Excel-EN	2,4, 6, 8 and 12 Zone conventional control and indicating equipment	810a/04
	Excel-EN 2 Zone Conventional Control Panel (Manufacturers internal code XLEN-2)	
	Incorporating as modular units:	
	TPCA01-X 2 XLEN 2 Zone Main PCB	
	TPCA03 XLEN Display Board	
	PSM3.0-24 Power Supply	
	Incorporating as optional module:	

TPCA05 XLEN Communications Board

Excel-EN 4 Zone Conventional Control Panel (Manufacturers internal code XLEN-4)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB

TPCA03 XLEN Display Board

PSM3.0-24 Power Supply

Excel-EN 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6H)

Incorporating as modular units:

TPCA01-X2 XLEN 2 Zone Main PCB

TPCA03 XLEN Display Board

TPCA04-H XLEN High Spec 4 Zone Extension Board

PSM3.0-24 Power Supply

Excel-EN 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6)

Incorporating as modular units:

TPCA01-X2 XLEN 2 Zone Main PCB

TPCA03 XLEN Display Board

TPCA04-S XLEN Standard 4 Zone Extension Board

PSM3.0-24 Power Supply

Excel-EN 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB

TPCA03 XLEN Display Board

TPCA04-H XLEN High Spec 4 Zone Extension Board

PSM3.0-24 Power Supply

Excel-EN 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8L)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB

TPCA03 XLEN Display Board

TPCA04-S XLEN Standard 4 Zone Extension Board

PSM3.0-24 Power Supply

Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB

TPCA03 XLEN Display Board

TPCA04-S XLEN Standard 4 Zone Extension Board

TPCA04-H XLEN High Spec 4 Zone Extension Board

PSM3.0-24 Power Supply

Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12L)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB

TPCA03 XLEN Display Board

TPCA04-S Two XLEN Standard 4 Zone Extension Board

PSM3.0-24 Power Supply

Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12H)

	Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H Two XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
AlarmSense	ALS-2 2 Zone AlarmSense conventional control and indicating equipment ALS-4 4 Zone AlarmSense conventional control and indicating equipment Incorporating as modular units: TPCA02 Eclipse LED Display & Controls Board TPCA06-A2 AlarmSense, 2 Zone main PCB TPCA06-A4 AlarmSense, 4 Zone main PCB (applicable on 4 zone CIE only) PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/05
AlarmSense Plus	2,4, 6, 8 and 12 Zone AlarmSense conventional control and indicating equipment ASP-2 2 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P2 AlarmSense Plus, 2 Zone main PCB PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board ASP-4 4 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P4 AlarmSense Plus, 4 Zone main PCB	810a/06

PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 XLEN Communications Board

ASP-6 6 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:

TPCA03 XLEN LED Display & Controls Board

TPCA06-P2 AlarmSense Plus, 2 Zone main PCB

TPCA07 AlarmSense Plus, 4 zone extension card

PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 XLEN Communications Board

ASP-8 8 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:

TPCA03 XLEN LED Display & Controls Board

TPCA06-P4 AlarmSense Plus, 4 Zone main PCB

TPCA07 AlarmSense Plus, 4 zone extension card

PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 XLEN Communications Board

ASP-12 12 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:

TPCA03 XLEN LED Display & Controls Board

TPCA06-P4 AlarmSense Plus, 4 Zone main PCB

TPCA07 AlarmSense Plus, 4 zone extension card x 2

PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12.1 Dependency on more than one alarm signal type A

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

XL32	16, 24 and 32 Zone conventional control and indicating equipment	810a/08

XL32-16 16 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB

TPCA11-16 16 Zone Main PCB

TPCA12 Power supply PCB

and as optional units:

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder card PCB

TPCA08 Output Card PCB

TPCA05 XLEN Communications Board

XL32-24 24 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB

TPCA11-24 24 Zone Main PCB

TPCA12 Power supply PCB

and as optional units:

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder card PCB

TPCA08 Output Card PCB

TPCA05 XLEN Communications Board

XL32-32 32 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB

TPCA11-32 32 Zone Main PCB

TPCA12 Power supply PCB

and as optional units:

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder card PCB

TPCA08 Output Card PCB

TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependency on more than one alarm signal type A

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-2 / 4	2 Zone conventional control and indicating equipment	810a/09

ESEN-2

Incorporating as modular units: TPC A01- S2 Eclipse two zone main PCB applicable on 2 zone CIE only

TPC A02 Eclipse LED display PCB

	PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition 4 Zone conventional control and indicating equipment ESEN-4 Incorporating as modular units: TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
ESEN-8	8 Zone conventional control and indicating equipment ESENTO 8 Zone Conventional Control Panel (Manufacturers internal code ESEN-8) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/10
ESEN-12	12 Zone conventional control and indicating equipment ESENTO 12 Zone Conventional Control Panel (Manufacturers internal code ESEN-12) TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A	810a/11

	7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
ESEN-16	16 Zone conventional control and indicating equipment ESENTO 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/12
ESEN-24	24 Zone conventional control and indicating equipment ESENTO 24 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices	810a/13

	7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
ESEN-32	32 Zone conventional control and indicating equipment ESENTO 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/14
ESEN-R-12MAR	12 Zone Repeater Panel is approved for use with the ESEN 8-12 Zone Control and Indicating Equipment	810a/R01

Certificate No: 810m to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
HEC-1 / HEC-1K	HEC-1 1 Zone Conventional Fire Alarm Control Panel HEC-1K 1 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-1 1 Zone Main PCB Incorporating the following optional modules:	810m/01

	SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition Notes: 1. The scope of the approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
HEC-2 / HEC-2K	HEC-2 2 Zone Conventional Fire Alarm Control Panel HEC-2K 2 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-2 2 Zone Main PCB Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition Notes: 1. The scope of the approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810m/02
HEC-4 / HEC-4K	HEC-4 4 Zone Conventional Fire Alarm Control Panel HEC-4K 4 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-4 4 Zone Main PCB Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition Notes: 1. The scope of the approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810m/03
HEC-8 / HEC-8K	HEC-8 8 Zone Conventional Fire Alarm Control Panel HEC-8K 8 Zone Conventional Fire Alarm Control Panel with Activate Control Key Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-8 8 Zone Main PCB	810m/04

TPCA025 Expansion Card

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

7.8 Output to fire alarm devices

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Certificate No: 360b-(cl-2) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Hochiki Latitude	2 to 8 Loop Analogue Addressable Control and Indicating Equipment2 to 16 Loop Analogue Addressable Control and Indicating Equipment	360b/01

Incorporating the following units:

S721 LCD Main Processor Board

S722 Main Back Board

S723 Network Module

S758 Dual loop Module

S769 System Board A module

S770 System Board B Module

S771 Zone LED Board

S787 Vision Unit

S768 Thermal Printer Assembly

S406 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408 10.25 Amp Power Supply Unit

S772 16 Channel I/O card

S791 8w Relay card

S792 8w conventional zone card

S788 Media gateway card

S793 4w sounder card

S786 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.3 Output to type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal – Type A

7.12.2 Dependencies on more than one alarm signal – Type B

7.12.3 Dependencies on more than one alarm signal – Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. The CIE is approved with Hochiki & Apollo protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.
4. The Hochiki Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

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Certificate No: 360b-(cl-1) to EN 54-2:1997 + A1: 2006, EN 54-4:1997 + A1: 2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
HFP Latitude	2 to 8 Loop Analogue Addressable Control and Indicating Equipment	360b/01
	2 to 16 Loop Analogue Addressable Control and Indicating Equipment	
	Incorporating the following units:	
	S721 LCD Main Processor Board	
	S722 Main Back Board	
	S723 Network Module	
	S758 Dual loop Module	
	S769 System Board A module	
	S770 System Board B Module	
	S771 Zone LED Board	
	S787 Vision Unit	
	S768 Thermal Printer Assembly	

S406 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408 10.25 Amp Power Supply Unit

S772 16 Channel I/O card

S791 8w Relay card

S792 8w conventional zone card

S788 Media gateway card

S793 4w sounder card

S786 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.3 Output to type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal – Type A

7.12.2 Dependencies on more than one alarm signal – Type B

7.12.3 Dependencies on more than one alarm signal – Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. The CIE is approved with Hochiki & Apollo protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.
4. The HFP Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

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Certificate No: 550g-(cl-1) to EN54-2:1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No

DXc1-S	Single loop control and indicating equipment	550g/01
	714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (UK & Iceland)	
	714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)	
	714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (Dutch, French, Italian, Slovenian)	
	714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (ASEAN, & India)	
	714-001-117 PANEL DXc1-S SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)	
	714-001-118 PANEL DXc1-S SINGLE LOOP REGION 8 (Russia & Bulgaria)	
	714-001-119 PANEL DXc1-S SINGLE LOOP REGION 9 (Greek)	
	Incorporating as modular units:	
	124-410-003 Base PCB 1 Loop	
	124-411 Display PCB	
	010-115 PSU RS-50-24	
DXc1-M	Single loop control and indicating equipment	550g/02
	714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (UK & Iceland)	
	714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)	
	714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (Dutch, French, Italian, Slovenian)	
	714-001-115 PANEL DXc1-M SINGLE LOOP REGION 5 (ASEAN, & India)	
	714-001-117 PANEL DXc1-M SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)	
	714-001-118 PANEL DXc1-M SINGLE LOOP REGION 8 (Russia & Bulgaria)	
	714-001-119 PANEL DXc1-M SINGLE LOOP REGION 9 (Greek)	
	Incorporating as modular units:	
	124-410-003 Base PCB 1 Loop	
	124-411 Display PCB	
	010-115 PSU RS-50-24	
DXc2-M	Two loop control and indicating equipment	550g/03
	714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (UK & Iceland)	
	714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (Iberia, India & ME)	
	714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (Dutch, French, Italian, Slovenian)	
	714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (ASEAN, & India)	
	714-001-227 PANEL DXc2-M TWO LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)	
	714-001-228 PANEL DXc2-M TWO LOOP REGION 8 (Russia & Bulgaria)	
	714-001-229 PANEL DXc2-M TWO LOOP REGION 9 (Greek)	
	Incorporating as modular units:	
	124-410-002 Base PCB 2 Loop	
	124-411 Display PCB	
	010-116 PSU RS-100-24	
DXc4-M	Four loop control and indicating equipment	550g/04
	714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (UK & Iceland)	
	714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (Iberia, India & ME)	
	714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (Dutch, French, Italian, Slovenian)	
	714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (ASEAN, & India)	

714-001-247 PANEL DXc4-M FOUR LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)

714-001-248 PANEL DXc4-M FOUR LOOP REGION 8 (Russia & Bulgaria)

714-001-249 PANEL DXc4-M FOUR LOOP REGION 9 (Greek)

Incorporating as modular units:

124-410-002 Base PCB 2 Loop

124-411 Display PCB

124-417 2 Loop PCB

010-116 PSU RS-100-24

Incorporating as optional modular units:

795-099 KIT DXc NETWORK CARD

795-102 KIT DXc 40 ZONE LED CARD

795-103 KIT DXc 80 ZONE LED CARD WITH COVER

795-111 KIT DXc 2 LOOP EXPANSION CARD (Applicable to the two loop CIE only)

795-117 KIT DXc PERFORMANCE CARD

795-118 KIT DXc KEYSWITCH

795-122 KIT DXc RS232

795-123 KIT DXc RS485

795-124 KIT DXc 80 ZONE LED CARD

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal-Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each addressable point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

DXc0-S	Pre-configured Single Loop Control and Indicating Equipment	550g/05

714-001-102 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)

714-001-105 PANEL DXc1-S SINGLE LOOP REGION 5 (ASEAN, & India)

714-001-107 PANEL DXc1-S SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)

714-001-108 PANEL DXc1-S SINGLE LOOP REGION 8 (Russia & Bulgaria)

714-001-109 PANEL DXc1-S SINGLE LOOP REGION 9 (Greek)

Incorporating as modular units:

124-410-003 Base PCB 1 Loop

124-411 Display PCB

010-115 PSU RS-50-24

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12.3 Dependencies on more than one alarm signal-Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each addressable point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 991k to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006, EN 54-21:2006 & EN 12094-1:2003

Control and indicating equipment

Product Name	Description	LPCB Ref. No
PREVIDIA216	2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d)	991k/01
	Incorporating the following modular units:	
	IFM24160 CAN power-supply module	
	IFM2L CAN module with 2 loops	
	IFMNET CAN module for Hornet network connection	
	IFM4R CAN module with 4 relays	
	IFM4IO CAN module with 4 I/O	
	IFMDIAL CAN dialler module	
	IFM16IO CAN module with 16 I/O	
	IFMLAN CAN LAN module	
	IFMEXT CAN extinguishant module	
	FPMCPU CPU module	
	FPMLED LED module	
	FPMLEDPRN LED module with printer	
	FPMEXT LED module for extinguishant module	
	Optional colour variant;	
	PREVIDIA216R Red Cabinet	
	Incorporating the following mechanical units:	
	FPMNUL Blind-plate module	
	PRCAB Spare cabinet	
	PRCABR Spare Cabinet RED	
	PRREP Metal box for FPMCPU assembly in REPEATER configuration	
	PRCABSP SPACER For back cabinet	
	PRCABSPR SPACER For back cabinet Red Colour	
	Certified with the following options with requirements from EN 54-2:1997 + A1: 2002 + A2: 2006:	
	7.8 Output to fire alarm devices (option with requirements)	

7.9.1 Output to fire alarm routing equipment (option with requirements)

7.9.2 Alarm confirmation input from fire alarm routing equipment (option with requirements)

7.10 Outputs to fire protection equipment (options with requirements)

7.10.1 Output type A (option with requirement)

7.10.2 Output type B (option with requirement)

7.10.3 Output type C (option with requirement)

7.10.4 Fault monitoring of fire protection equipment (option with requirement)

7.11 Delays to outputs (option with requirements)

7.12 Dependencies on more than one alarm signal (option with requirements)

7.12.1 Type A dependency (option with requirement)

7.12.2 Type B dependency (option with requirement)

7.12.3 Type C dependency (option with requirement)

7.13 Alarm Counter (option with requirements)

8.3 Fault signals from points (option with requirements)

8.9 Output to fault warning routing equipment(option with requirements)

9.5 Disablement of addressable point (option with requirements)

10 Test condition (option with requirements)

Certified with the following options with requirements from EN 12094-1:2003

4.17 Delay of extinguishing signal

4.18 Signal representing the flow of extinguishing agent

4.19 Monitoring of the status of components

4.20 Emergency hold device

4.21 Control of flooding time

4.22 Initiation of secondary flooding

4.24 Triggering signals to equipment within the system

4.26 Triggering of equipment outside the system

4.27 Emergency abort device

4.28 Control of extended discharge

4.29 Release of the extinguishing media for selected flooding zones

4.30 Activation of alarm devices with different signals

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

3. The e.c.d is approved to EN12094-1 for more than 1 flooding zone when 2 FPMCPU modules are used.

4. The CIE is also approved when connected with FPMCPU as a CPU /Repeater module.

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Certificate No: 1330h-(cl-6) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SS-8888	1 to 4 loop Intelligent Addressable Control and Indicating Equipment	1330h/01
	Incorporating the following modules:	
	7010200004 TX7004 Mother Board	
	7020100022 TX7004 Main Board	
	7010700017 TX7004 Loop Board	
	7010400011 TX7004 Power Management Board	
	7010600019 TX7004 Communication Board	
	7010400012 TX7004 Power Wiring Board	
	PDF-150-27.5 Power Supply Unit	
	7021300007 TX7004 Keyboard	
	7020800009 TX7004 Led Board	
	7010300010 TX7004 Regional Display Board	
	814400002 TX6940E Printer Module	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm device(s)	
	7.10.1 Output to fire protection equipment - Type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.13 Alarm counter	
	9.5 Disablement of each address point	
	10 Test condition	
	Notes: 1. The scope of the approval does not include the operation of the network functionality 2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	

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Certificate No: 360b to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Taktis	2 to 8 Loop Analogue Addressable Control and Indicating Equipment	360b/01
	2 to 16 Loop Analogue Addressable Control and Indicating Equipment	
	Incorporating the following units:	
	S721 LCD Main Processor Board	
	S722 Main Back Board	
	S723 Taktis Network Module	
	S758 Dual loop Module	

S769 System Board A module

S770 System Board B Module

S771 Zone LED Board

S787 Taktis Vision Unit

S768 Taktis Thermal Printer Assembly

Incorporating the following Units:

S406 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408 10.25 Amp Power Supply

S772 16 Channel I/O card

S791 8w Relay card

S792 8w conventional zone card

S788 Media gateway card

S793 4w sounder card

S786 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.3 Output to type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. The CIE is approved with Hochiki & Apollo protocols via the S758 card.

2. Scope of certification does not include the operation of the network functionality.

3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

4. The Hochiki Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

Notes:
1. The CIE is approved with Hochiki & Apollo protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.
4. The Taktis CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SigmaZXT	Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d) Incorporating the following modules: S2022 Mainboard S406 5.25 Amp Power Supply Unit S420 2 Amp Power Supply Unit The Sigma ZXT has different part numbers which are details below: K192311XM2 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Standard Enclosure, 2A PSU K192311XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 2A PSU K195311XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 5A PSU K192312XM2 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Standard Enclosure, 2A PSU, Nordic Key Switch K192312XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 2A PSU, Nordic Key Switch K195312XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 5A PSU, Nordic Key Switch Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 10 Test condition Certified with the following Options with requirements from EN 12094-1:2003 4.17 Delay of extinguishing signal 4.18 Signal representing the flow of extinguishing agent 4.19 Monitoring of the status of components 4.20 Emergency hold device 4.21 Control of flooding time 4.23 Manual mode only 4.25 Extinguishing signals to spare cylinders 4.27 Emergency abort device 4.30 Activation of alarm devices with different signal Notes: 1. Scope of certification does not include the operation of the network functionality. 2. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 3. The Sigma ZXT is certified with the M2 (standard) & M3 (large) enclosure 4. The S420 PSE can be fitted in either a M2 or M3 cabinet. The S406 can only be fitted in a M3 cabinet.	360d/01

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Certificate No: 1450g-(cl-4) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
KET-CP-100	1-4 Loops Analogue Addressable Control and Indicating Equipment Incorporating the following modules: TC5109-Main Main board TC5109-Loop Loop board TC5109-XZB Loop base board TC5109-Key Keypad board TC5109-ZX Zone and FPE indicator board TC5109-LCD Display board TC5109-SCR Indicator board TC5120-RS485 RS485 board TC5000-MAIN-CAN CAN board TC5109-LB1 Filter board 1 TC5109-LB2 Filter board 2 TC5109-POW Power Supply Equipment Certified with the following options with requirements: 7.8 Output to fire alarm device(s) 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 8.3 Fault signals from points 9.5 Disablement of addressable points Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Scope of approval does not include the operation of the network functionality.	1450g/01

Notes:
1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.
2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 1330h-(cl-11) to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
KF7004-1	1 Loop Intelligent Addressable Control and Indicating Equipment	1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.
2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

KF7004-2	2 Loop Intelligent Addressable Control and Indicating Equipment	1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.
2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

KF7004 4 Loop Intelligent Addressable Control and Indicating Equipment 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

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Certificate No: 1174e-(cl-7) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
KM-FC5016	Incorporating the following units: VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/01
KM-FC5008	8 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note:	1174e/02

	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
KM-FC5004	4 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/03
KM-FC5002	2 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/04

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Certificate No: 1330h-(cl-7) to EN 54-4:1997 + A1:2002 + A2:2006, EN 54-2:1997 + A1:2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
LF-X500-1	1 Loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 Mother Board 7020100022 Main Board 7010700017 Loop Board 7010400011 Power Management Board	1330h/01

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

LF-X500-2 — 2 Loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

LF-X500-4 4 Loop Intelligent Addressable Control and Indicating Equipment 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:
The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

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Certificate No: 926d to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 926n to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006, EN 12094-1: 2003

Control and indicating equipment

Product Name	Description	LPCB Ref. No
ML-1231.EN	Maxlogic intelligent analogue addressable 1 Loop, 127 addressable devices, 64 Zone control and indicating equipment. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY-0500-EN PSU unit ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	926d/01
ML-1241.P.EN	Maxlogic intelligent analogue addressable 1 Loop, 127addressable devices, 64 Zone control and indicating equipment with printer Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY-0500-EN PSU unit	926d/01

ML-1203 Printer module

ML-1201 Optional Network module

542.188 Optional Turkish text membrane

542.189 Optional English text membrane

542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.11 Delays to the auctioning of outputs fire alarm devices and

fire routing equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm

systems requirements of EN54-13.

ML-1232.EN	Maxlogic intelligent analogue addressable 2 Loop, 254 addressable devices, 64 Zone control and indicating equipment	926d/02

Incorporating the following units:

MLY-1202.EN Main MCU module

MLY-1203 Zone LED module

MLY-1200 SLCU module

MLY- 0500-EN PSU unit

ML-1201 Optional Network module

542.188 Optional Turkish text membrane

542.189 Optional English text membrane

542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.11 Delays to the auctioning of outputs fire alarm devices and

fire routing equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

	9.5 Disablement of each address point 10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ML-1242.P.EN	Maxlogic intelligent analogue addressable 2 Loop, 254 addressable devices, 64 Zone control and indicating equipment with printer. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	926d/02
ML-1233.EN	Maxlogic intelligent analogue addressable 3 Loop, 381 addressable devices, 64 Zone control and indicating equipment. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1201 Optional Network module	926d/03

542.188 Optional Turkish text membrane

542.189 Optional English text membrane

542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.11 Delays to the auctioning of outputs fire alarm devices and

fire routing equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm

systems requirements of EN54-13.

ML-1243.P.EN	Maxlogic intelligent analogue addressable 3 Loop, 381 addressable devices, 64 Zone control and indicating equipment with printer. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point	926d/03

	10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ML-1234.EN	Maxlogic intelligent analogue addressable 4 Loop, 508 addressable devices, 64 Zone CIE Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition **Notes:** 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	926d/04
ML-1244.P.EN	Maxlogic intelligent analogue addressable 4 Loop, 508 addressable devices, 64 Zone control and indicating equipment with printer. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane	926d/04

542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.11 Delays to the auctioning of outputs fire alarm devices and

fire routing equipment

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This product approval does not constitute compliance with the fire detection and alarm

systems requirements of EN54-13.

MI-22102	Maxlogic Two Zone Conventional Control and Indicating Equipment	926d/05

Incorporating the units:

ML-221XX_V1.1 / ML-22102 Main Board Module

MLY-0511_V1 / MLY-0511 Power Supply Board

and as optional modules:

542.212 / ML-22102 English text membrane

542.211 / ML-22102 Turkish text membrane

542.213 / ML-22102 Russian text membrane

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices

MI-22104	Maxlogic Four Zone Conventional Control and Indicating Equipment	926d/06

Incorporating the units:

ML-221XX_V1.1 / ML-22104 Main Board Module

MLY-0511_V1 / MLY-0511 Power Supply Board

and as optional modules:

542.215 / ML-22104 English text membrane

542.214 / ML-22104 Turkish text membrane

542.216 / ML-22104 Russian text membrane

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices

MI-22108	Maxlogic Eight Zone Conventional Control and Indicating Equipment	926d/07

Incorporating the units:

ML-221XX_V1.1 / ML-22108 Main Board Module

	MLY-0511_V1 / MLY-0511 Power Supply Board and as optional modules: 542.218 / ML-22108 English text membrane 542.217 / ML-22108 Turkish text membrane 542.219 / ML-22108 Russian text membrane	
MI-22116	Maxlogic Sixteen Zone Conventional Control and Indicating Equipment Incorporating the units: ML-221XX_V1.1 / ML-22116 Main Board Module ML_Zone_Extand_V1 / ML-22116 Expansion Board Module MLY-0511_V1 / MLY-0511 Power Supply Board and as optional modules: 542.221 / ML-22116 English text membrane 542.220 / ML-22116 Turkish text membrane 542.222 / ML-22116 Russian text membrane Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices	926d/08
ML-322	Maxlogic Conventional 4 Zone Control and Indicating Equipment and 1 Flooding Zone Extinguishing Control Panel (e.c.d) Notes: Incorporating the following modules: ML-32X41 V2.1 Main Board Module MLY-0511 V1 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 10 Test condition Certified with the following options with requirements from EN 12094-1: 4.17 Delay of extinguishing signal 4.18 Signal representing the flow of extinguishing agent 4.19 Monitoring of the status of components 4.20 Emergency hold device 4.21 Control of flooding time 4.23 Manual only mode 4.26 Triggering of equipment outside the system 4.30 Activation of alarm devices with different signals	926n/01

Certificate No: 926n to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
ML-322	Maxlogic Conventional 4 Zone Control and Indicating Equipment and 1 Flooding Zone Extinguishing Control Panel (e.c.d.) Notes: Incorporating the following modules:	926n/01

ML-32X41_V2.1 Main Board Module

MLY-0511_V1 Power Supply Board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

10 Test condition

Certified with the following options with requirements from EN 12094-1:

4.17 Delay of extinguishing signal

4.18 Signal representing the flow of extinguishing agent

4.19 Monitoring of the status of components

4.20 Emergency hold device

4.21 Control of flooding time

4.23 Manual only mode

4.26 Triggering of equipment outside the system

4.30 Activation of alarm devices with different signals

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Certificate No: 567au-(cl-1) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002+A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
HRZ2-8 2 Zone	2 zone conventional control and indicating equipment	567au/10
	002-477-122 Language region 1, light grey	
	002-477-129 Language region 1, black & grey	
	002-477-222 Language region 2, light grey	
	002-477-229 Language region 2, black & grey	
	002-477-322 Language region 3, light grey, dual relay	
	002-477-329 Language region 3, black & grey, dual relay, English manual	
	002-490-129 Language region 1, black & grey, dual relay, English manual	
	002-490-229 Language region 2, black & grey, dual relay, English manual	
	002-492-222 Language region 2, light grey, English manual	
	Incorporating the following units:	
	020-747 8-Way relay kit	
	020-772 4-way monitored sounder kit	
	Certified with the following options from EN 54 Part 2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routing equipment	
	7.10.1 Output to automatic fire protection equipment: Type A	
	7.10.3 Output to automatic fire protection equipment: Type C	
	7.10.4 Fault monitoring of fire protection equipment	

	7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit. 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
HRZ2-8 4 Zone	4 zone conventional control and indicating equipment 002-477-142 Language region 1, light grey 002-477-149 Language region 1, black & grey 002-477-242 Language region 2, light grey 002-477-249 Language region 2, black & grey 002-477-342 Language region 3, light grey, dual relay 002-477-349 Language region 3, black & grey, dual relay 002-490-149 Language region 1, black & grey, dual relay, English manual 002-490-249 Language region 2, black & grey, dual relay, English manual 002-492-242 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit. 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	567au/11
HRZ2-8 8 Zone	8 zone conventional control and indicating equipment 002-477-182 Language region 1, light grey 002-477-189 Language region 1, black & grey	567au/12

	002-477-282 Language region 2, light grey 002-477-289 Language region 2, black & grey 002-477-382 Language region 3, light grey, dual relay 002-477-389 Language region 3, black & grey, dual relay 002-490-189 Language region 1, black & grey, dual relay, English manual 002-490-289 Language region 2, black & grey, dual relay, English manual 002-490-282 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit. 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
DXc1-S	Single loop control and indicating equipment	567au/15
	714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1(MIAS/Apollo/System Sensor protocol) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (MIAS protocol) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (MIAS protocol) 714-001-114 PANEL DXc1-S SINGLE LOOP REGION 4 (MIAS protocol) 714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (MIAS protocol) Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24 Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points	

9.5 Disablement of each address points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

3. The regions are related to different market areas

DXc2-M | Two loop control and indicating equipment | 567au/16

714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (MIAS/Apollo/System Sensor protocol)

714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (MIAS protocol)

714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (MIAS protocol)

714-001-224 PANEL DXc2-M TWO LOOP REGION 4 (MIAS protocol)

714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (MIAS protocol)

714-001-226 PANEL DXc2-M TWO LOOP REGION 6 (System Sensor protocol)

Incorporating as modular units:

124-410 Base PCB 2 Loop

124-411 Display PCB

010-116 PSU RS-100-24

Incorporating as optional modular units:

124-414 DXn Zone Expansion PCB

124-429 Loop Splitter PCB

124-430 DXc System I/O PCB (note: cannot be fitted with 124-414)

124-300 RS232 I/F

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment - Output type A

7.10.2 Output to fire protection equipment - Output type B

7.10.3 Output to fire protection equipment - Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire

detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network

functionality.

3. The regions are related to different market areas.

DXc4-M	Four loop control and indicating equipment 714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (MIAS protocol) 714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (MIAS protocol) 714-001-244 PANEL DXc4-M FOUR LOOP REGION 4 (MIAS protocol) 714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (MIAS protocol) Incorporating as modular units: 124-410 Base PCB 2 Loop 124-411 Display PCB 124-417 2 Loop PCB 010-116 PSU RS-100-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment - Output type A 7.10.2 Output to fire protection equipment - Output type B 7.10.3 Output to fire protection equipment - Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. 3. The regions are related to different market areas.	567au/17

DXc1-M	Single loop control and indicating equipment 714-001-213 PANEL DXc1-M SINGLE LOOP REGION 3 (MIAS protocol) 714-001-214 PANEL DXc1-M SINGLE LOOP REGION 4 (MIAS protocol) Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. 3. The regions are related to different market areas.	567au/18

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Certificate No: 1330h-(cl-3) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
MX704	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 Mother Board 7020100022 Main Board 7010700017 Loop Board 7010400011 Power Management Board 7010600019 Communication Board 7010400012 Power Wiring Board	1330h/01

PDF-150-27.5 Power Supply Unit

7021300007 Key Board

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality

2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

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Certificate No: 1330h-(cl-12) to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
NFA-T04-1FP	Single loop Intelligent Addressable Control and Indicating Equipment	1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

NFA-T04-2FP — 2 loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

NFA-T04FP — 4 loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

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Certificate No: 567au-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002+A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
ID3000	Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment	567au/04
	020-538 Basic Equipment Kit ID3000, Group 0	
	020-538-001 ID3000 Basic Equipment Kit, Group 1	
	020-538-003 ID3000 Basic Equipment Kit, Group 3	
	020-538-004 ID3000 Basic Equipment Kit, Group 4	
	020-538-005 ID3000 Basic Equipment Kit, Group 5	
	Incorporating the following as modular units:	
	Enclosures:	
	020-472-009 Backbox Kit Standard, Black / Grey	
	020-473-009 Backbox Kit Extended, Black / Grey	
	020-474-009 Backbox Kit Extended Deep, Black / Grey	
	020-475-009 Backbox Kit Double Extended, Black / Grey	
	020-476-009 Backbox Kit Double Extended Deep, Black / Grey	
	020-480-009 Cover Kit Main Moulded, Black / Grey	
	020-481-009 Cover Kit Extended Moulded, Black / Grey	
	020-508-009 Backbox Extension Standard Assembly Black / Grey	
	020-509-009 Backbox Extension Deep Assembly Black / Grey	
	020-513-009 High Security Cover Kit Main, Black / Grey	
	020-514-009 High Security Cover Kit Extension	
	020-576 Main Cover, Stainless Steel	
	020-577 Extension Cover Stainless Steel	
	020-621-256 Zone Extension Cover, Stainless / Steel	
	020-621-009 256 Zone Extension Cover, Black / Grey	
	020-541-009 PSU7A / 78Ah Battery Enclosure	
	Modules:	
	020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module	
	020-559-002 Zone Extension Chassis Kit 65-128 Zone	
	C/W Display Module	
	020-612 Double Extended Chassis Kit 256 Zone	
	020-708-009 Extension Chassis with Printer	
	020-644-009 Printer Assembly	
	020-588 Notifier Dual Loop Interface Board, (LIB)	
	020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)	
	020-478 RS232 Interface	
	020-479 RS485 Interface	
	020-648 PSU3A	
	020-579 PSU7A, (Requires Dual Transmission Path / Booster,	
	PSU Interface)	
	020-548 PSU7A Status Indication	
	020-543 Dual Transmission Path / Booster, PSU Interface	

	020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel Notes: 1. Products are available in language variants as follows: Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic 2. Fixed build products incorporate a corresponding Basic Equipment Kit 3. Scope of approval does not include the operation of the network functionality This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ID3002	Fixed build 2 loop analogue addressable control and indicating equipment 002-473 ID3002, 2 Loop, PSU3A, Group 0, Red 002-474 ID3002, 2 Loop, PSU3A, Group 0 002-474-001 ID3002, 2 Loop, PSU3A, Group 1 002-474-003 ID3002, 2 Loop, PSU3A, Group 3 002-474-004 ID3002, 2 Loop, PSU3A, Group 4 002-474-005 ID3002, 2 Loop, PSU3A, Group 5 Incorporating the following as modular units: Enclosures: 020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure Modules: 020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module	567au/04

020-559-002 Zone Extension Chassis Kit 65-128 Zone

C/W Display Module

020-612 Double Extended Chassis Kit 256 Zone

020-708-009 Extension Chassis with Printer

020-644-009 Printer Assembly

020-588 Notifier Dual Loop Interface Board, (LIB)

020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)

020-478 RS232 Interface

020-479 RS485 Interface

020-648 PSU3A

020-579 PSU7A, (Requires Dual Transmission Path / Booster,

PSU Interface)

020-548 PSU7A Status Indication

020-543 Dual Transmission Path / Booster, PSU Interface

020-773 Routing Termination Unit (DEOL)

020-877 Extinguishing Interface Module M221-SI

020-643 ID²net Fibre Optic Interface Kit

020-647 ID²net Network Gateway Module,

(NGM) for use in ID3000 Panel

Notes: 1. Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals

Group 1: English, Spanish, Portuguese, Icelandic and Italian

Group 3: English, Swedish, Danish, Norwegian and Finish

Group 4: English and Polish

Group 5: English and Cyrillic

2. Fixed build products incorporate a corresponding Basic Equipment Kit.

3. Scope of approval does not include the operation of the network functionality

4. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

ID3006	Fixed build 6 loop analogue addressable control and indicating equipment.	567au/04

020-731 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB

020-732 ID3006, 6 Loop, PSU7A, Group 0, 2xELIB

020-733 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, printer

020-734 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, 64 zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey

020-473-009 Backbox Kit Extended, Black / Grey

020-474-009 Backbox Kit Extended Deep, Black / Grey

020-475-009 Backbox Kit Double Extended, Black / Grey

020-476-009 Backbox Kit Double Extended Deep, Black / Grey

020-480-009 Cover Kit Main Moulded, Black / Grey

020-481-009 Cover Kit Extended Moulded, Black / Grey

020-508-009 Backbox Extension Standard Assembly Black / Grey

020-509-009 Backbox Extension Deep Assembly Black / Grey

020-513-009 High Security Cover Kit Main, Black / Grey

020-514-009 High Security Cover Kit Extension

020-576 Main Cover, Stainless Steel

020-577 Extension Cover Stainless Steel

020-621-256 Zone Extension Cover, Stainless / Steel

020-621-009 256 Zone Extension Cover, Black / Grey

020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone

C/W Display Module

020-559-002 Zone Extension Chassis Kit 65-128 Zone

C/W Display Module

020-612 Double Extended Chassis Kit 256 Zone

020-708-009 Extension Chassis with Printer

020-644-009 Printer Assembly

020-588 Notifier Dual Loop Interface Board, (LIB)

020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)

020-478 RS232 Interface

020-479 RS485 Interface

020-648 PSU3A

020-579 PSU7A, (Requires Dual Transmission Path / Booster,

PSU Interface)

020-548 PSU7A Status Indication

020-543 Dual Transmission Path / Booster, PSU Interface

020-773 Routing Termination Unit (DEOL)

020-877 Extinguishing Interface Module M221-SI

020-643 ID²net Fibre Optic Interface Kit

020-647 ID²net Network Gateway Module,

(NGM) for use in ID3000 Panel

Notes 1. Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals

2. Fixed build products incorporate a corresponding Basic Equipment Kit

3. Scope of approval does not include the operation of the network functionality

4. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

ID3008	Fixed build 8 loop analogue addressable control and indicating equipment.	567au/04

020-735 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure

020-736 ID3008, 8 Loop, PSU7A, Group 0, 3xELIB, 78Ah Battery Enclosure

020-737 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure, Printer

020-738 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery enclosure, printer, 64 Zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey

020-473-009 Backbox Kit Extended, Black / Grey

020-474-009 Backbox Kit Extended Deep, Black / Grey

020-475-009 Backbox Kit Double Extended, Black / Grey

020-476-009 Backbox Kit Double Extended Deep, Black / Grey

020-480-009 Cover Kit Main Moulded, Black / Grey

020-481-009 Cover Kit Extended Moulded, Black / Grey

020-508-009 Backbox Extension Standard Assembly Black / Grey

020-509-009 Backbox Extension Deep Assembly Black / Grey

020-513-009 High Security Cover Kit Main, Black / Grey

020-514-009 High Security Cover Kit Extension

020-576 Main Cover, Stainless Steel

020-577 Extension Cover Stainless Steel

020-621-256 Zone Extension Cover, Stainless / Steel

020-621-009 256 Zone Extension Cover, Black / Grey

020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone

C/W Display Module

020-559-002 Zone Extension Chassis Kit 65-128 Zone

C/W Display Module

020-612 Double Extended Chassis Kit 256 Zone

020-708-009 Extension Chassis with Printer

020-644-009 Printer Assembly

020-588 Notifier Dual Loop Interface Board, (LIB)

020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)

020-478 RS232 Interface

020-479 RS485 Interface

020-648 PSU3A

020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)

020-548 PSU7A Status Indication

020-543 Dual Transmission Path / Booster, PSU Interface

020-773 Routing Termination Unit (DEOL)

020-877 Extinguishing Interface Module M221-SI

020-643 ID²net Fibre Optic Interface Kit

020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Notes 1. Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals

Group 1: English, Spanish, Portuguese, Icelandic and Italian

Group 3: English, Swedish, Danish, Norwegian and Finish

Group 4: English and Polish

Group 5: English and Cyrillic

2. Fixed build products incorporate a corresponding Basic Equipment Kit.

	3. Scope of approval does not include the operation of the network functionality 4. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
002-467	ID²net Network Gateway Unit, (NGU) Notifier Protocol Incorporating the following as modular units: 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panels 020-648 PSU3A Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	567au/05
ID60	Single loop analogue addressable control and indicating equipment 002-456 ID60 Panel Group 0 002-456-001 ID60 Panel Group 1 002-456-003 ID60 Panel Group 3 002-456-004 ID60 Panel Group 4 May also incorporate the following optional modular unit: 002-553 RS485 Communication Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B	567au/07

	7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes 1. Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ID61	Single loop analogue addressable control and indicating equipment 002-463 ID61 Panel Group 0 002-463-001 ID61 Panel Group 1 002-463-004 ID61 Panel Group 4 002-485-001 ID61 Panel Group 1 (Red) Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish	567au/08

	Group 4: English and Polish 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ID62	Single loop analogue addressable control and indicating equipment 002-461 ID62 Panel Group 0 002-461-001 ID62 Panel Group 1 002-461-004 ID62 Panel Group 4 Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Notes: 1. Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	567au/09
NFS2-8 2 Zone	002-477-122 Language region 1, light grey 002-477-129 Language region 1, black & grey 002-477-222 Language region 2, light grey 002-477-229 Language region 2, black & grey 002-477-322 Language region 3, light grey, dual relay 002-477-329 Language region 3, black & grey, dual relay, English manual 002-490-129 Language region 1, black & grey, dual relay, English manual	567au/10

002-490-229 Language region 2, black & grey, dual relay, English manual

002-490-222 Language region 2, light grey, English manual

Incorporating the following units:

020-747 8-Way relay kit

020-772 4-way monitored sounder kit

Certified with the following options from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment: Type A

7.10.3 Output to automatic fire protection equipment: Type C

7.10.4 Fault monitoring of fire protection equipment

7.11.1 Delays to outputs

7.11.2 Manual or automatic switching of delays to outputs

7.12.2 Dependency on more than one alarm signal: Type B

8.9 Output to fault warning routing equipment

10 Test condition

Notes:

1. Fixed build products incorporate a corresponding Basic equipment Kit.

2. Scope of approval does not include the operation of the network functionality

3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

NFS2-8 4 Zone	4 zone conventional control and indicating equipment	567au/11

002-477-142 Language region 1, light grey

002-477-149 Language region 1, black & grey

002-477-242 Language region 2, light grey

002-477-249 Language region 2, black & grey

002-477-342 Language region 3, light grey, dual relay

002-477-349 Language region 3, black & grey, dual relay

002-490-149 Language region 1, black & grey, dual relay, English manual

002-490-249 Language region 2, black & grey, dual relay, English manual

002-490-242 Language region 2, light grey, English manual

Incorporating the following units:

020-747 8-Way relay kit

020-772 4-way monitored sounder kit

Certified with the following options from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment: Type A

7.10.3 Output to automatic fire protection equipment: Type C

7.10.4 Fault monitoring of fire protection equipment

7.11.1 Delays to outputs

7.11.2 Manual or automatic switching of delays to outputs

	7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit. 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
NFS2-8 8 Zone	8 zone conventional control and indicating equipment 002-477-182 Language region 1, light grey 002-477-189 Language region 1, black & grey 002-477-282 Language region 2, light grey 002-477-289 Language region 2, black & grey 002-477-382 Language region 3, light grey, dual relay 002-477-389 Language region 3, black & grey, dual relay 002-490-189 Language region 1, black & grey, dual relay, English manual 002-490-289 Language region 2, black & grey, dual relay, English manual 002-490-282 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit. 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	567au/12
Pearl	Two loop analogue addressable control and indicating equipment Incorporating the following units: 772489-NE CPU Board 124-408 3A PSU board 124-412 Network gateway module 124-421 Base board incorporating two loops 124-422 Display board	567au/19

	124-423 VdS I/O Module	
	124-426 Communications module	
	PRL-Box Extended Back box	
	Incorporating the following optional regional language text inserts:	
	PRL-LED-EN (English)	
	PRL-D (German)	
	PRL-IB (Iberia)	
	PRL-BNL (Benelux)	
	PRL-LCD-NRD (Swedish)	
	PRL-MEA (Middle East and Africa)	
	PRL-IT (Italian)	
	Certified with the following options with requirements from EN 54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routing equipment	
	7.10.1 Output to fire protection equipment type A	
	7.10.3 Output to fire protection equipment type C	
	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.2 Dependency on more than one alarm signal type B	
	7.12.3 Dependency on more than one alarm signal type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablements of addressable points	
	10 Test condition	
	Notes:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
	2. Scope of approval does not include the operation of the network functionality	
Pearl	Single loop analogue addressable control and indicating equipment	567au/20
	Incorporating the following units:	
	772489-NE CPU board	
	124-408 3A PSU board	
	124-412 Network gateway module	
	124-421-001 Single loop base board incorporating one loop	
	124-422 Display board	
	124-423 VdS I/O Module	
	124-426 Communications module	
	PRL-Box Extended Back box	
	Incorporating the following optional regional language text inserts:	
	PRL-LED-EN-1 (English)	
	PRL-D-1 (German)	
	PRL-IB-1 (Iberia)	

PRL-BNL-1 (Benelux)

PRL-LCD-NRD-1 (Swedish)

PRL-MEA-1 (Middle East and Africa)

PRL-IT-1 (Italian)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment type A

7.10.3 Output to fire protection equipment type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablements of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

Certificate No: 567au-(cl2) to EN 54-2: 1997 + A1:2006, EN 54-4: 1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
ID3000	Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment. 020-538 Basic Equipment Kit ID3000, Group 0 020-538-001 ID3000 Basic Equipment Kit, Group 1 020-538-003 ID3000 Basic Equipment Kit, Group 3 020-538-004 ID3000 Basic Equipment Kit, Group 4 020-538-005 ID3000 Basic Equipment Kit, Group 5 Incorporating the following as modular units: Enclosures: 020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure Modules: 020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop	567au/04

Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3002

Fixed build 2 loop analogue addressable control and indicating equipment. 567au/04

002-473 ID3002, 2 Loop, PSU3A, Group 0, Red

002-474 ID3002, 2 Loop, PSU3A, Group 0

002-474-001 ID3002, 2 Loop, PSU3A, Group 1

002-474-003 ID3002, 2 Loop, PSU3A, Group 3

002-474-004 ID3002, 2 Loop, PSU3A, Group 4

002-474-005 ID3002, 2 Loop, PSU3A, Group 5

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3004

Fixed build 4 loop analogue addressable control and indicating equipment. 567au/04

020-727 ID3004, 4 Loop, PSU7A, Group 0, LIB

020-728 ID3004, 4 Loop, PSU7A, Group 0, ELIB

020-729 ID3004, 4 Loop, PSU7A, Group 0, LIB, printer

020-730 ID3004, 4 Loop, PSU7A, Group 0, LIB, 64 zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3006 — Fixed build 6 loop analogue addressable control and indicating equipment. — 567au/04

020-731 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB

020-732 ID3006, 6 Loop, PSU7A, Group 0, 2xELIB

020-733 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, printer

020-734 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, 64 zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3008

Fixed build 8 loop analogue addressable control and indicating equipment. 567au/04

020-735 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure

020-736 ID3008, 8 Loop, PSU7A, Group 0, 3xELIB, 78Ah Battery Enclosure

020-737 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure, Printer

020-738 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery enclosure, printer, 64 Zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

002-467

ID^{2}net Network Gateway Unit, (NGU) Notifier Protocol 567au/05

Incorporating the following as modular units:

020-643 ID^{2}net Fibre Optic Interface Kit

020-647 ID^{2}net Network Gateway Module, (NGM) for use in ID3000 Panels

020-648 PSU3A

Certified with the following options with requirements:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment type A

7.10.3 Output to fire protection equipment type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablements of addressable points

10 Test condition

ID60	Single loop analogue addressable control and indicating equipment 002-456 ID60 Panel Group 0 002-456-001 ID60 Panel Group 1 002-456-003 ID60 Panel Group 3 002-456-004 ID60 Panel Group 4 May also incorporate the following optional modular unit: 002-553 RS485 Communication Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Note: Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish	567au/07
ID61	Single loop analogue addressable control and indicating equipment 002-463 ID61 Panel Group 0 002-463-001 ID61 Panel Group 1 002-463-004 ID61 Panel Group 4 002-485-001 ID61 Panel Group 1 (Red) Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Note: Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish	567au/08
ID62	Single loop analogue addressable control and indicating equipment 002-461 ID62 Panel Group 0 002-461-001 ID62 Panel Group 1 002-461-004 ID62 Panel Group 4 Incorporating the following modular unit:	567au/09

020-648 PSU3A Kit

May also incorporate the following optional modular units:

020-479 RS485 Communication Kit

020-644-009 Printer Kit

Certified with the following options with requirements:

7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition

Note: Products are available in various language groups as follows:

Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish

NFS2-8 2 Zone	002-477-122 Language region 1, light grey	567au/10
	002-477-129 Language region 1, black & grey	
	002-477-222 Language region 2, light grey	
	002-477-229 Language region 2, black & grey	
	002-477-322 Language region 3, light grey, dual relay	
	002-477-329 Language region 3, black & grey, dual relay, English manual	
	002-490-129 Language region 1, black & grey, dual relay, English manual	
	002-490-229 Language region 2, black & grey, dual relay, English manual	
	002-490-222 Language region 2, light grey, English manual	
	Incorporating the following units:	
	020-747 8-Way relay kit 020-772 4-way monitored sounder kit	
	Certified with the following options from EN 54 Part 2:	
	7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition	
	Note 1: fixed build products incorporate a corresponding Basic equipment Kit.	
NFS2-8 4 Zone	002-477-142 Language region 1, light grey	567au/11
	002-477-149 Language region 1, black & grey	
	002-477-242 Language region 2, light grey	
	002-477-249 Language region 2, black & grey	
	002-477-342 Language region 3, light grey, dual relay	
	002-477-349 Language region 3, black & grey, dual relay	
	002-490-149 Language region 1, black & grey, dual relay, English manual	
	002-490-249 Language region 2, black & grey, dual relay, English manual	
	002-490-242 Language region 2, light grey, English manual	
	Incorporating the following units:	
	020-747 8-Way relay kit 020-772 4-way monitored sounder kit	
	Certified with the following options from EN 54 Part 2:	

	7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Note 1: fixed build products incorporate a corresponding Basic equipment Kit.	
NFS2-8 8 Zone	002-477-182 Language region 1, light grey 002-477-189 Language region 1, black & grey 002-477-282 Language region 2, light grey 002-477-289 Language region 2, black & grey 002-477-382 Language region 3, light grey, dual relay 002-477-389 Language region 3, black & grey, dual relay 002-490-189 Language region 1, black & grey, dual relay, English manual 002-490-289 Language region 2, black & grey, dual relay, English manual 002-490-282 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Note 1: fixed build products incorporate a corresponding Basic equipment Kit.	567au/12
Pearl	Two loop analogue addressable control and indicating equipment Incorporating the following units: 772489-NE CPU board 124-408 3A PSU board 124-412 Network gateway module 124-421 Base board incorporating two loops 124-422 Display board 124-423 VdS I/O Module 124-426 Communications module PRL-Box Extended Back box Incorporating the following optional regional language text inserts: PRL-LED-EN (English) PRL-D (German) PRL-IB (Iberia) PRL-BNL (Benelux) PRL-LCD-NRD (Swedish) PRL-MEA (Middle East and Africa) PRL-IT (Italian) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. **Notes:** 1. 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of	567au/19

	the network functionality.	
Pearl	Single loop analogue addressable control and indicating equipment Incorporating the following units: 772489-NE CPU board 124-408 3A PSU board 124-412 Network gateway module 124-421-001 Single loop base board incorporating one loop 124-422 Display board 124-423 VdS I/O Module 124-426 Communications module PRL-Box Extended Back box Incorporating the following optional regional language text inserts: PRL-LED-EN-1 (English) PRL-D-1 (German) PRL-IB-1 (Iberia) PRL-BNL-1 (Benelux) PRL-LCD-NRD-1 (Swedish) PRL-MEA-1 (Middle East and Africa) PRL-IT-1 (Italian) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	567au/20

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Certificate No: 1450g-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
NF5109	1-4 Loops Analogue Addressable Fire Alarm Control Panel Incorporating the following modules: TC5109-Main Main board TC5109-Loop Loop board TC5109-XZB Loop base board TC5109-Key Keypad board TC5109-ZX Zone and FPE indicator board TC5109-LCD Display board TC5109-SCR Indicator board TC5120-RS485 RS485 board TC5000-MAIN-CAN CAN board TC5109-LB1 Filter board 1	1450g/01

TC5109-LB2 Filter board 2

TC5109-POW Power Supply Equipment

Certified with the following options with requirements:

7.8 Output to fire alarm device(s)

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

8.3 Fault signals from point

9.5 Disablement of addressable points

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 1426g-(cl-7) to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
SDS3002	1 loop Analogue Addressable Fire Alarm Control Panel	1426g/01

Incorporating the following modules:

SEC3002_IO IO Board

SEC3002_B Monitoring Board (B Board)

ZB-9100-A Main CPU Board (A Board)

PSE10_KZ Power Supply

SEC3002_QK Zone Indication Board

SEC3002_KEY Keyboard

SEC3002_FL1 Loop SPU Board

Incorporating the following optional modules:

SEC3002_COM Communication Board

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.10.1 Output type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

10 Test condition

Notes:

	1. This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN54-13. 2. Scope of approval does not include the operation of the network functionality.	
SDS1000	Single Loop Analogue Addressable Fire Alarm Control Panel Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: This product approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN54-13.	1426g/02

Paradox Hellas S.A

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Certificate No: 1369a-(cl-1) to EN54-2:1997 + A1: 2006 & EN54-4:1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SMARTX	SMARTX 116 HO Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol) SMARTX 132 HO Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol) SMARTX 116 AP Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol) SMARTX 132 AP Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol) Incorporating the following modules: PH.SM.1LP.MN Addressable Main Board PH.KP.132.GR 32 Zones Keypad / Display Board (Applicable to SMARTX 132) PH.KP.116.GR 16 Zones Keypad / Display Board (Applicable to SMARTX 116) PH.PS.006.V1 FPS-6 Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment Output type A	1369a/01

7.10.2 Outputs to fire protection equipment Output type B

7.10.3 Outputs to fire protection equipment Output type C

7.10.4 Fault monitoring of fire protection equipment

7.12.2 Dependencies on more than one alarm signal Type B dependency

8.3 Fault signals from points

9.5 Disablement of addressable point

Note:

This product approval does not constitute compliance with the fire detection and alarms systems requirements of EN54-13.

PT.Servvo Fire Indonesia

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Certificate No: 1426g-(cl-3) to EN54-2: 1997 + A1: 2006 & EN52-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SFS 2640E	Single Loop Analogue Addressable Fire Alarm Control Panel	1426g/01
	Incorporating the following modules:	
	SEC3002_IO IO Board	
	SEC3002_B Monitoring Board (B Board)	
	ZB-9100-A Main CPU Board (A Board)	
	PSE10_KZ Power Supply	
	SEC3002_QK Zone Indication Board	
	SEC3002_KEY Key Board	
	SEC3002_FL1 Loop SPU Board	
	Incorporating the following optional modules:	
	SEC3002_COM Communication Board	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm devices	
	7.10.1 Output type A	
	7.11 Delays to outputs	
	8.3 Fault signals from points	
	9.5 Disablement of addressable point	
	10 Test condition	
	Notes:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
	2. Scope of approval does not include the operation of the network functionality.	
SFS 2120E	Single Loop Analogue Addressable Control and Indicating Equipment	1426g/02
	Incorporating the following modules:	
	SEC1000_CB Main Control Board	
	SEC1000_MB IO Board	
	PMC_01 Power Management Control Board	

LRS-75-24 Meanwell Power Supply

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

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Certificate No: 1330h-(cl-9) to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
SK7004-1	1 loop Intelligent Addressable Control and Indicating Equipment	1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

SK7004-2 — 2 loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

SK-7004 — 4 loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

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Certificate No: 1159h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SEC3002	Single Loop Analogue Addressable Control and Indicating Equipment	1159h/01
	Incorporating the following modules:	
	SEC3002_IO IO Board	
	SEC3002_B Monitoring Board (B Board)	

	ZB-9100-A Main CPU Board (A Board) PSE10_KZ Power Supply SEC3002_QK Zone Indication Board SEC3002_KEY Keyboard SEC3002_FL1 Loop SPU Board Incorporating the following optional modules: SEC3002_COM Communication Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.	
SEC1000	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	1159h/02

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Certificate No: 1369a-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Mikro	Mikro 216 Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol)	1369a/01

Mikro 232 Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol)

Mikro 16 Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol)

Mikro 32 Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol)

Incorporating the following modules:

MK.SA.1LP.EN Addressable Main Board

MK.SA.32D.EN 32 Zones Keypad / Display Board (Applicable to Mikro 32 Zones)

MK.SA.32D.EN 16 Zones Keypad / Display Board (Applicable to Mikro 16 Zones)

MK.SA.PSU.EN Power Supply

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire protection equipment Output type A

7.10.2 Outputs to fire protection equipment Output type B

7.10.3 Outputs to fire protection equipment Output type C

7.10.4 Fault monitoring of fire protection equipment

7.12.2 Dependencies on more than one alarm signal Type B dependency

8.3 Fault signals from points

9.5 Disablement of addressable point

Note:

This product approval does not constitute compliance with the fire detection and alarms systems requirements of EN54-13.

Certificate No: 360b-(cl-4) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Trident	2 to 8 Loop Analogue Addressable Control and Indicating Equipment	360b/01
	2 to 16 Loop Analogue Addressable Control and Indicating Equipment	
	Incorporating the following units:	
	TEN-9021 LCD Main Processor Board	
	TEN-9022 Main Back Board	
	TEN-9023 Trident Network Module	
	TEN-9058 Dual loop Module	
	TEN-9069 System Board A module	
	TEN-9070 System Board B Module	
	TEN-9071 Zone LED Board	
	TEN-9087 Trident Vision Unit	
	TEN-9068 Trident Thermal Printer Assembly	
	TEN-9606 5.25 Amp Power Supply Unit	
	Incorporating the following optional modules:	
	TEN-9810 10.25 Amp Power Supply Unit	

TEN-9072 16 Channel I/O card

TEN-9091 8w Relay card

TEN-9092 8w conventional zone card

TEN-9088 Media gateway card

TEN-9093 4w sounder card

TEN-9086 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.3 Output to type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delay to outputs

7.12.1 Dependencies on more than one alarm signal – Type A

7.12.2 Dependencies on more than one alarm signal – Type B

7.12.3 Dependencies on more than one alarm signal – Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. The CIE is approved with Hochiki & Apollo protocols via the S758 card.

2. Scope of certification does not include the operation of the network functionality.

3. This certificate does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.

4. The Sheild Trident CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

Certificate No: 810a-(cl-3) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
NS-EN2 / NS-EN4	2 Zone Conventional Control and Indicating Equipment	810a/09
	Incorporating as modular units: TPC A01-S2 Eclipse two zone main PCB applicable on 2 zone CIE only	
	TPC A02 Eclipse LED display PCB	
	PSM1.5-24 Power supply 1.5A rated	
	Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition	
	4 Zone Conventional Control and Indicating Equipment	
	Incorporating as modular units: TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only	
	TPC A02 Eclipse LED display PCB	

	PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
NS-EN8	8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/10
NS-EN12	12 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/11
NS-EN16	16 Zone Conventional Control and Indicating Equipment Incorporating as modular units:	810a/12

TPCA10 32 Zone LED display PCB

TPCA11-16 16 Zone Main PCB

TPCA12 Power supply PCB

Incorporating as optional module:

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder Card PCB

TPCA08 Output Card PCB

NS-EN-NCB Network Communication Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependency on more than one alarm signal type A

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

NS-EN24	24 Zone Conventional Control and Indicating Equipment	810a/13

Incorporating as modular units:

TPCA10 32 Zone LED display PCB

TPCA11-24 24 Zone Main PCB

TPCA12 Power supply PCB

Incorporating as optional module:

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder Card PCB

TPCA08 Output Card PCB

NS-EN-NCB Network Communication Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependency on more than one alarm signal type A

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

NS-EN32	32 Zone Conventional Control and Indicating Equipment	810a/14

Incorporating as modular units:

TPCA10 32 Zone LED display PCB

TPCA11-32 32 Zone Main PCB

TPCA12 Power supply PCB

Incorporating as optional module:

TPCR01 Relay PCB

TPCR03 Isolate Switch PCB

TPCA09 Sounder Card PCB

TPCA08 Output Card PCB

NS-EN-NCB Network Communication Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.11 Delays to outputs

7.12.1 Dependency on more than one alarm signal type A

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Website: www.siemens.com

Certificate No: 126bn to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
FC2020	Control and Indicating Equipment	126bn/01

Incorporating as modular units:

FCM2027	PMI- & Mainboard
FCM2028-A2	Operating unit
FCM2037-A2	Operating unit (w/o accs.)
FP2015-A1	70W Power supply
FCI2002-A1	Periphery board (2-Loop)

Incorporating as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module

FCI2003-A1 Loop expansion (FDnet)
FCI2023-A1 Periphery board (2-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM2036-A2 Operating add-on (4xLED indication)

FCM2038-A2 Operating add-on (2xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (modular)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

SV24V-150W Power Supply

FP2017-A1 or 250W Power Supply

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2002-A1 Rear housing standard

FHA2003-A1 Rear Housing Comfort

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection Equipment

7.11 Delays to outputs

7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line technology)

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Incorporating as modular units:

FCM2027	PMI- & Mainboard
FCM2028-A2	Operating unit
FCM2037-A2	Operating unit (w/o accs.)
SV24V-150W	150W Power supply
FP2017-A1	or 250W Power Supply
FCI2002-A1	Periphery board (2-Loop)
FCA2007-A1	Card cage (2 slot)

Incorporating as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2006-A1	Connection Module (card cage)
FCA2007-A1	Card cage
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module
FCI2003-A1	Loop expansion (Fdnet)
FCI2007-A1	I/O Card RT
FCI2008-A1	I/O Card (programmable)
FCI2009-A1	I/O Card Horn
FCL2001-A1	Line Card (Fdnet)
FCL2002-A1	Line Card (collective)
FCL2003-A1	Line Card (MS9i)
FCL2005-A1	Linecard (AnalogPlus)
FCL2006-A1	Linecard (Interactive)
FCL2007-A1	Linecard (InteractiveEx)
FCL2008-A1	Line card (FDnet/C-NET, P)
FCI2023-A1	Periphery board (2-Loop, P)
FCI2025-A1	Loop Extension (FDnet, P)
FCM2036-A2	Operating addition (4 xLED indication)
FCM2038-A2	Operating add-on (2xLED indication)
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)
FN2012-A1	Ethernet Switch (modular)
FTO2001-A1	Event printer set
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)

FC2030-CR Housing Rear (CH)

FHA2003-A1 Rear housing comfort

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection Equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, AnalogPlus-, Interactive - & InteractiveEx-line Technology)

7.12.2 Dependencies on more than one alarm signal type B

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC2040 Control and Indicating Equipment 126bn/03

Incorporating as modular units;

FCM2027 PMI- & Mainboard

FCM2028-A2 Operating unit

FCM2037-A2 Operating unit (w/o accs.)

SV24V-150W 150W Power supply

FP2017-A1 or 250W Power Supply

FCI2004-A1 Periphery board (4-Loop)

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCA2031-A1 Connection Module (MoNet)

FCI2001-D1 Fire brigade periphery module

FCI2003-A1 Loop expansion (Fdnet)

FCI2024-A1 Periphery board (4-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM2036-A2 Operating add-on (4xLED indication) optional

FCM2038-A2 Operating add-on (2xLED indication) optional

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (modular)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2003-A1 Rear housing comfort

FHA2005-A1 Rear Housing Large

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection Equipment

7.11 Delays to output

7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology)

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Incorporating as modular units:

FCM2027 PMI- & Mainboard

FCM2028-A2 Operating unit

FCM2037-A2 Operating unit (w/o accs.)

SV24V-150W 150W Power supply

FP2017-A1 or 250W Power Supply

FCI2004-A1 Periphery board (4-Loop)

FCA2008-A1 Card cage (5 slot)

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCA2006-A1 Connection mod. (Card cage)

FCA2031-A1 Connection Module (MoNet)

FCI2001-D1 Fire brigade periphery module

FCI2003-A1 Loop expansion (FDnet)

FCI2007-A1 I/O Card RT

FCI2008-A1 I/O Card (programmable)

FCI2009-A1 I/O Card Horn

FCL2001-A1 Line Card (FDnet)

FCL2002-A1 Line Card (collective)

FCL2003-A1 Line Card (MS9i)

FCL2005-A1 Linecard (AnalogPlus)

FCL2006-A1 Linecard (Interactive)

FCL2007-A1 Linecard (InteractiveEx)

FCL2008-A1 Line card (FDnet/C-NET, P)

FCI2024-A1 Periphery board (4-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM2036-A2 Operating add-on (4xLED indication)

FCM2038-A2 Operating add-on (2xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (modular)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2005-A1 Rear housing large

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, AnalogPlus-, Interactive - & InteractiveEx-line Technology)

7.12.2 Dependencies on more than one alarm signal type B

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC721	Control and Indicating Equipment	126bn/05

Incorporating as modular units:

FCM7204-Z3 Operating unit

FCM7215-Y3 Operating unit (w/o acces.)

FP2015-A1 70W Power supply

FCI2010-A1 Periphery board (1-Loop)

FCM2027 PMI- & Mainboard

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCM7213-Y3 Operating add-on (2xLED indication)

FCM7214-Y3 Operating add-on (4xLED indication)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

FHA2001-A1 Rear Housing (Eco)

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection equipment

7.11 Delays to outputs

7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology)

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC722 Control and Indicating Equipment 126bn/06

Incorporating as modular units:

FCM2027 PMI- & Mainboard

FCM7204-Z3 Operating unit

FCM7215-Y3 Operating unit (w/o acces.)

SV24V/150W 150W Power supply

FP2017-A1 or 250W Power Supply

FCI2002-A1 Periphery board (2-Loop)

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCA2031-A1 Connection Module (MoNet)

FCI2001-D1 Fire brigade periphery module

FCI2003-A1 Loop expansion (FDnet)
FCI2023-A1 Periphery board (2-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM7213-Y3 Operating add-on (2xLED indication)

FCM7214-Y3 Operating add-on (4xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (modular)

FP2015-A1 Power Supply 70W

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2002-A1 Rear wall Standard

FHA2003-A1 Rear Housing Comfort

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection equipment

7.11 Delays to outputs

7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology)

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

FC724 Control and Indicating Equipment 126bn/07

Incorporating as modular units:

FCM7204-Z3 Operating unit

FCM7215-Y3 Operating unit (w/o acces.)

SV24V/150W 150W Power supply

FP2017-A1 or 250W Power Supply

FCI2004-A1 Periphery board (4-Loop)

FCM2027 PMI- & Mainboard

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCA2031-A1 Connection Module (MoNet)

FCI2001-D1 Fire brigade periphery module

FCI2003-A1 Loop expansion (Fdnet)

FCI2024-A1 Periphery board (4-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM7213-Y3 Operating add-on (2xLED indication)

FCM7214-Y3 Operating add-on (4xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (modular)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2003-A1 Rear housing comfort

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection equipment

7.11 Delays to outputs

7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i- line Technology)

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC726 Control and Indicating Equipment 126bn/08

Incorporating as modular units:

FCM7204-Z3 Operating unit

FCM7215-Y3 Operating unit (w/o acces.)

FCA2006-A1 Connection mod. (Card cage)

SV24V/150W 150W Power supply

FP2017-A1 or 250W Power Supply

FCI2004-A1 Periphery board (4-Loop)

FCA2008-A1 Card cage (5 slot)

FCM2027 PMI- & Mainboard

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCA2031-A1 Connection Module (MoNet)

FCI2001-D1 Fire brigade periphery module

FCI2003-A1 Loop expansion (FDnet)

FCI2007-A1 I/O Card RT

FCI2008-A1 I/O Card (programmable)

FCI2009-A1 I/O Card Horn

FCL2001-A1 Line Card (FDnet)

FCL2002-A1 Line Card (collective)

FCL2003-A1 Line Card (MS9i)

FCL2006-A1 Linecard (Interactive)

FCL2007-A1 Linecard (InteractiveEx)

FCL7201-Z3 Linecard (SynoLoop)

FCL2008-A1 Line card (FDnet/C-NET, P)

FCI2024-A1 Periphery board (4-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM7213-Y3 Operating add-on (2xLED indication)

FCM7214-Y3 Operating add-on (4xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (MM/SM))

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2005-A1 Rear housing large

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal A (only for MS9i-,collective-, SynoLoop-, Interactive - & InteractiveEx- line Technology)

7.12.2 Dependencies on more than one alarm signal type B

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

FC723 Control and Indicating Equipment 126bn/09

Incorporating as modular units:

FCM7204-Z3 Operating unit

FCM7215-Y3 Operating unit (w/o acces.)

FCA2006-A1 Connection mod. (Card cage)

FCA2007-A1 Card cage (2slot)

SV24V/150W 150W Power supply

FP2017-A1 or 250W Power Supply

FCI2002-A1 Periphery board (2-Loop)

FCM2027 PMI- & Mainboard

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002-A1 RS485 Module (isolated)

FCA2031-A1 Connection Module (MoNet)

FCI2001-D1 Fire brigade periphery module

FCI2003-A1 Loop expansion (Fdnet)

FCI2007-A1 I/O Card RT

FCI2008-A1 I/O Card (programmable)

FCI2009-A1 I/O Card Horn

FCL2001-A1 Line Card (Fdnet)

FCL2002-A1 Line Card (collective)

FCL2003-A1 Line Card (MS9i)

FCL2006-A1 Linecard (Interactive)

FCL2007-A1 Linecard (InteractiveEx)

FCL7201-Z3 Linecard (SynoLoop)

FCL2008-A1 Line card (FDnet/C-NET, P)

FCI2023-A1 Periphery board (2-Loop, P)

FCI2025-A1 Loop Extension (FDnet, P)

FCM7213-Y3 Operating add-on (2xLED indication)

FCM7214-Y3 Operating add-on (4xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (modular)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2003-A1 Rear housing comfort

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm Confirmation from fire alarm routing equipment

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

7.10.4 Fault monitoring of automatic fire protection Equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, SynoLoop-, Interactive - & InteractiveEx- line Technology)

7.12.2 Dependencies on more than one alarm signal type B

7.12.3 Dependencies on more than one alarm signal type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

Note:

1.Scope of approval does not include the operation of the network functionality.

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FT2040

Fire detection terminal for use with FC2020, FC2030, FC2040 & FC2060 Control and Indicating Equipment

126bn/R01

Incorporating as modular units:

FCM2027 PMI- & Mainboard

FCM2028-A2 Operating unit

FCM2037-A2 Operating unit (w/o accs.)

FTI2001-A1 Fire terminal board

FP2015-A1 Power Supply 70W

Incorporating as optional modular units:

FCA2001-A1 RS232 Module (isolated)

FCA2002 –A1 RS485 Module (isolated)

FCA2031-A1 Connection Module (MoNet)

FCM2036-A2 Operating add-on (4xLED indication)

FCM2038-A2 Operating add-on (2xLED indication)

FN2001-A1 Network module (SAFEDLINK) (See note 1)

FN2008-A1 Ethernet Switch (MM) (see note 1)

FN2012-A1 Ethernet Switch (MM/SM)

FTO2001-A1 Event printer set

FTO2008-A1 LED module

VN2002-A1 Ethernet module (MM)

VN2003-A1 Ethernet module (SM)

FHA2001-A1 Rear housing (Eco)

	H28G200 Housing base Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	
FT724	Fire detection terminal for use with FC721, FC722, FC723, FC724 & FC726 Control and Indicating Equipment Incorporating as modular units: FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) FTI2001-A1 Fire terminal board FP2015-A1 Power Supply 70W FCM2027 PMI- & Mainboard Incorporating as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (MM/SM) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2001-A1 Rear housing (Eco) H28G200 Metal Housing Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	126bn/R02

Notes:
1. Scope of approval does not include the operation of the network functionality.
2. This approval does not constitute compliance with the fire detection and fire alarm systems requirements of EN 54-13.

Certificate No: 531q-(cl-1) to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Product Name	Description	LPCB Ref. No
FC121-ZA and FC122-ZA	FC121-ZA Two Zone Conventional Control and Indicating Equipment	531q/01

	FC122-ZA Four Zone Conventional Control and Indicating Equipment Incorporating the units: PCBA FC121-ZA Two zone main control board with integrated power supply PCBA FC122-ZA Four zone main control board with integrated power supply Optional modules: FCA1203-Z1 Output card 2M2R FTO1201-H1 EVAC module (applicable on NL model only) FCA1206-Z1 Key switch set (applicable on Nordic SE model only) Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition	
FC123-ZA and FC124-ZA	FC123-ZA Eight Zone Conventional Control and Indicating Equipment FC124-ZA Twelve Zone Conventional Control and Indicating Equipment Incorporating the units: PCBA FC123-ZA Eight zone main control board PCBA FC124-ZA Twelve zone main control board FP2015-A1 Power supply (70W) Optional modules: FCA1203-Z1 Output card 2M2R FTO1202-Z1 Zone indication field 12x2 LED FTO1203-H1 EVAC module (applicable on NL model only) FCA1206-Z1 Key switch set (applicable on Nordic SE model only) Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition	531q/02
FC361-ZZ and FC361-ZA	FC361-ZZ Analogue Addressable Control and Indicating Equipment FC361-ZA Analogue Addressable Control and Indicating Equipment	531q/03

FC361-ZZ Control and Indicating Equipment Compact (Standard Housing)

Incorporating the following modules:

FCM3601-Z1 Main Board

FHD3601-Z1 PMI - Personnel Machine Interface

FP2015-A1 Power Supply (70 W)

Optional modules:

FCA3602-Z1 4M Output card

FCA2001-A1 RS232 module

FCA2002-A1 RS485 module

FCA3603-Z1 Key switch - Nordic

FCA3601-Z1 Key switch

FTO3603-Z1 LED Indicator (32 zones)

FTO3601-H1 Evacuation Module

FC361-ZA Control and Indicating Equipment Comfort (Large Housing)

Incorporating the following modules:

FCM3601-Z1 Main Board

FHD3601-Z1 PMI - Personnel Machine Interface

FP2015-A1 Power Supply (70 W)

Optional modules:

FCA3602-Z1 4M Output card

FCA2001-A1 RS232 module

FCA2002-A1 RS485 module

FCA3603-Z1 Key switch - Nordic

FCA3601-Z1 Key switch

FTO3603-Z1 LED Indicator (32 zones)

FTO3601-H1 Evacuation Module

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire protection equipment (Output Type A)

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal (Type A dependency)

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10. Test condition

Notes: 1. Z= Housing for 7Ah & 12Ah Battery; A=Housing for 7Ah, 12Ah & 25Ah Battery.

2. Scope of approval does not include the operation of the network functionality.

3. This product approval does not constitute compliance with the fire detection and alarm

	system requirements of EN54-13.	
FC362-ZZ and FC362-ZA	FC362-ZZ Two Loop Analogue Addressable Control and Indicating Equipment FC362-ZA Two Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: FCM3601-Z2 Mainboard FHD3601-Z1 PMI - Personnel Machine Interface FP2015-A1 Power Supply (70W) Optional modules: FCA3602-Z1 4M Output card FCA2001-A1 RS232 Module FCA2002-A1 RS485 Module FCA3603-Z1 Key switch - Nordic FCA3601-Z1 Key switch FTO3603-Z1 LED Indicator (32 zones) FTO3601-H1 Evacuation Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13. 3. Z= Housing for 7Ah & 12Ah Battery; A=Housing for 7Ah, 12Ah & 25Ah Battery.	531q/04

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Certificate No: 567ap-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
SENTRI1	Single loop analogue addressable control and indicating equipment Incorporating as modular units: 2434-881 Mother board	567ap/01

2434-862 Power supply

2434-887 H.M.I (Human Machine Interface)

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

8.3 Fault signals from points

10 Test condition

Certificate No: 567aq/01 to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SENTRI2	One to Two Loop Analogue Addressable Control and Indicating Equipment	567aq/01
	Incorporating the following modules:	
	SENTRI2-MCB-N Master Control Board networkable	
	SENTRI2-PSU-N Power Supply Unit	
	SENTRI2-IDOOR Display and Key card (DKC)	
	SENTRI2-LPC-EN Loop processor card	
	SENTRI2-NC Copper network card	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm device(s)	
	7.11 Delays to outputs	
	8.3 Fault signals from points	
	9.5 Disablement of each address point	
	10 Test condition	
	Notes:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
	2. Scope of approval does not include the operation of the network functionality.	

Certificate No: 567ar-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SENTRI4	One to Four Loop Analogue Addressable Control and Indicating Panel	567ar/01
	Incorporating the following modules:	
	SENTRI4-LPC-EN SENTRI Loop Card	
	SENTRI4-MCC-24 Local Controller Card	
	SENTRI4-NC Copper Network Card	
	SENTRI4-PSU-24 Power Supply Unit	
	SENTRI4-BPlane Backplane	
	SENTRI4-IDOOR SENTRI Display Board - D.K.C	
	SENTRI4-PRIN Printer Assembly	
	SENTRI4-NC-SMF Single Mode Fibre Network Card	
	Certified with the following options with requirements from EN54-2:	

7.8 Output to fire alarm device(s)

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of each address point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

Sodcks

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Certificate No: 1426g-(cl-6) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
P1000	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC3002_IO IO Board SEC3002_B Monitoring Board (B Board) ZB-9100-A Main CPU Board (A Board) PSE10_KZ Power Supply SEC3002_QK Zone Indication Board SEC3002_KEY Keyboard SEC3002_FL1 Loop SPU Board Incorporating the following optional modules: SEC3002_COM Communication Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable point 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Scope of approval does not include the operation of the network functionality.	1426/01
P3000	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply	1426g/02

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable points

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

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Certificate No: 1330h-(cl-10) to EN 54-2:1997 + A1:2006, EN54-4:1997 + A1:2002 + A2:2006

Control and Indicating Equipment

Product Name	Description	LPCB Ref. No
SHFT41S	1 Loop Intelligent Addressable Control and Indicating Equipment	1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

SHFT42S — 2 Loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

SHFT44S — 4 Loop Intelligent Addressable Control and Indicating Equipment — 1330h/01

Incorporating the following modules:

7010200004 Mother Board

7020100022 Main Board

7010700017 Loop Board

7010400011 Power Management Board

7010600019 Communication Board

7010400012 Power Wiring Board

PDF-150-27.5 Power Supply Unit

7021300007 Keyboard

7020800009 Led Board

7010300010 Regional Display Board

814400002 Printer Module

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality.

2. The product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN 54-13.

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Certificate No: 176b-(cl-3) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 +A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
CFP702-4/SYN	Two Zone Red Conventional Control and Indicating Equipment	176b/07
	Incorporating the following units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724851 2 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	

	7.11 Delays to outputs	
	10 Test condition	
CFP704-4/SYN	Four Zone Red Conventional Control and Indicating Equipment	176b/08
	Incorporating the following units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724853 4 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP708-4/SYN	Eight Zone Red Conventional Control and Indicating Equipment	176b/09
	Incorporating the following units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724855 8 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	

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Certificate No: 1330h-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
TX7004	1 to 4 loop Intelligent Addressable Control and Indicating Equipment	1330h/01
	Incorporating the following modules:	
	7010200004 TX7004 Mother Board	
	7020100022 TX7004 Main Board	
	7010700017 TX7004 Loop Board	
	7010400011 TX7004 Power Management Board	
	7010600019 TX7004 Communication Board	
	7010400012 TX7004 Power Wiring Board	
	PDF-150-27.5 Power Supply Unit	
	7021300007 TX7004 Key Board	
	7020800009 TX7004 Led Board	
	7010300010 TX7004 Regional Display Board	
	814400002 TX6940E Printer Module	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm device(s)	
	7.10.1 Output to fire protection equipment - Type A	
	7.11 Delays to outputs	

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Note:

1. The scope of the approval does not include the operation of the network functionality

2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

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Certificate No: 1330h-(cl-4) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
TX7004	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Key Board 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output to fire protection equipment - Type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.13 Alarm counter 9.5 Disablement of each address point 10 Test condition Note: 1. The scope of the approval does not include the operation of the network functionality 2. The product approval does not constitute compliance with the fire detection and	1330h/01

alarm system requirements of EN54-13.

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Certificate No: 681ad-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
557.200.732	PSU A17 Addressable 17Ah Power Supply Unit Notes: 1) The unit is not intended to supply power to Fire Alarm Control Panels 2) The maximum lead length for the fault output connection is 3m	681ad/01
557.200.733	PSU A38 Addressable 38Ah Power Supply Unit Notes: 1) The unit is not intended to supply power to Fire Alarm Control Panels 2) The maximum lead length for the fault output connection is 3m	681ad/02

Certificate No: 681ad-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
557.200.530	PSU A17 Addressable 17Ah Power Supply Unit (557.200.530.R Red Cabinet) Notes: 1) The unit is not intended to supply power to Fire Alarm Control Panels 2) The maximum lead length for the fault output connection is 3m	681ad/01
557.200.531	PSU A38 Addressable 38Ah Power Supply Unit (557.200.531.R Red Cabinet) Notes: 1) The unit is not intended to supply power to Fire Alarm Control Panels 2) The maximum lead length for the fault output connection is 3m	681ad/02

Certificate No: 681ae-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
508.031.004.xx	MZXC 2 Zone, Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 - 2605508, 2 Zone Twin Wire Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.13 Alarm counter	681ae/01

	10 Test condition	
	Note: xx indicates the language option	
	EG = English facia overlay	
508.031.005.xx	MZXC 4 Zone, Twin Wire Conventional Control and Indicating Equipment	681ae/02
	Incorporating as modular units:	
	C1694 - 2605509, 4 Zone Twin Wire Motherboard	
	BAQ-35T24 Power Supply	
	Certified with the following options from EN 54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.13 Alarm counter	
	10 Test condition	
	Note: xx indicates the language option	
	EG = English facia overlay	
508.031.006.xx	MZXC 8 Zone Twin Wire Conventional Control and Indicating Equipment	681ae/03
	Incorporating as modular units:	
	C1694 - 2605510, 8 Zone Twin Wire Motherboard	
	BAQ-35T24 Power Supply	
	Certified with the following options from EN 54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.13 Alarm counter	
	10 Test condition	
	Note: xx indicates the language option	
	EG = English facia overlay	

Certificate No: 681ag-(cl-3) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Pro16xD	4-16 Loops Analogue Addressable Control & Indicating Equipment	681ag/06
	Incorporating the following units:	
	PR1DS Profile User Interface	
	PFI800 PROFILE Panel Field Interface Board	
	PSC400 PROFILE Backplane 4 Slots	
	PPM800 Profile Panel Mounting Frame	
	PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]	
	Incorporating the following optional modules:	
	PNI800 PROFILE Network Interface Slot Card	
	PCS800 PROFILE Ethernet Switch	
	POS800-S Fibre Optic Switch Single Mode	
	POS800-M Fibre Optic Switch Multi-Mode	

FB800 Fuse board (15 way)

PZ4x PROFILE 40 Way Zonal Display

PZ8x PROFILE 80 Way Zonal Display

TUD800 Triggering board for transmission unit

PLX800 PROFILE Loop Expansion Slot Card

PCH800 PROFILE Charger Slot Card

SM3 Serial Interface to FAT

SFK800 PROFILE Swiss Fire Brigade Interface

IOB800 Input/Output Expansion Board

FOM800 Fibre Optic Module

FBI800 Fire Brigade Interface

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box

PxD Profile Extension Box for Pro32xD

Pro16xBB - Approved for use with the Pro16xD Control & Indicating Equipmen

Incorporating the following units:

PR1DS Profile User Interface

PFI800 PROFILE Panel Field Interface Board

PSC400 PROFILE Backplane 4 Slots

PPM800 Profile Panel Mounting Frame

PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:

PNI800 PROFILE Network Interface Slot Card

PCS800 PROFILE Ethernet Switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi-Mode

FB800 Fuse board (15 way)

TUD800 Triggering board for transmission unit

PLX800 PROFILE Loop Expansion Slot Card

PCH800 PROFILE Charger Slot Card

SM3 Serial Interface to FAT

SFK800 PROFILE Swiss Fire Brigade Interface

IOB800 Input/Output Expansion Board

FOM800 Fibre Optic Module

FBI800 Fire Brigade Interface

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box

PxD Profile Extension Box for Pro32xD

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire controls for fire protection equipment – Output type A

7.10.2 Outputs to fire controls for fire protection equipment – Output type B

7.10.3 Outputs to fire controls for fire protection equipment – Output type C

7.10.4 Fault monitoring of fire controls for fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal – Type A

7.12.2 Dependencies on more than one alarm signal – Type B

7.12.3 Dependencies on more than one alarm signal – Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro32xD 4-32 Loops Analogue Addressable Control & Indicating Equipment 681ag/07

Incorporating the following units:

PR1DS Profile User Interface

PFI800 PROFILE Panel Field Interface Board

PSC800 PROFILE Backplane 6 Slots

PPM800 Profile Panel Mounting Frame

PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:

PNI800 PROFILE Network Interface Slot Card

PCS800 PROFILE Ethernet Switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi-Mode

FB800 Fuse board (15 way)

PZ4x PROFILE 40 Way Zonal Display

PZ8x PROFILE 80 Way Zonal Display

TUD800 Triggering board for transmission unit

PLX800 PROFILE Loop Expansion Slot Card

PCH800 PROFILE Charger Slot Card

SM3 Serial Interface to FAT

SFK800 PROFILE Swiss Fire Brigade Interface

IOB800 Input/Output Expansion Board

FOM800 Fibre Optic Module

FBI800 Fire Brigade Interface

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box

PxD Profile Extension Box for Pro32xD

Pro32xBB - Approved for use with the Pro32xD Control & Indicating Equipment

Incorporating the following units:

PR1DS Profile User Interface

PFI800 PROFILE Panel Field Interface Board

PSC800 PROFILE Backplane 6 Slots

PPM800 Profile Panel Mounting Frame

PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:

PNI800 PROFILE Network Interface Slot Card

PCS800 PROFILE Ethernet Switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi-Mode

FB800 Fuse board (15 way)

PZ4x PROFILE 40 Way Zonal Display

PZ8x PROFILE 80 Way Zonal Display

TUD800 Triggering board for transmission unit

PLX800 PROFILE Loop Expansion Slot Card

PCH800 PROFILE Charger Slot Card

SM3 Serial Interface to FAT

SFK800 PROFILE Swiss Fire Brigade Interface

IOB800 Input/Output Expansion Board

FOM800 Fibre Optic Module

FBI800 Fire Brigade Interface

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box

PxD Profile Extension Box for Pro32xD

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Outputs to fire controls for fire protection equipment – Output type A

7.10.2 Outputs to fire controls for fire protection equipment – Output type B

7.10.3 Outputs to fire controls for fire protection equipment – Output type C

7.10.4 Fault monitoring of fire controls for fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal – Type A

7.12.2 Dependencies on more than one alarm signal – Type B

7.12.3 Dependencies on more than one alarm signal – Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of addressable points

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

PR8AS — Repeater Panel — 681ag/R04

Approved for use with the Pro16xD and Pro32xD Control & Indicating Equipment

Incorporating the following modules:

PR1DS Profile User Interface

PZ8x Profile 80 Way Zone Display

PMM800 Profile Supply Module

BAW75T24 Power Supply Unit

PR1AS-CH — Repeater Panel — 681ag/R05

Approved for use with the Pro16xD and Pro32xD Control & Indicating Equipment

Incorporating the following modules:

PR1DS Profile User Interface

SFK800 Swiss Fire Brigade Interface

PMM800 Profile Supply Module

BAW75T24 Power Supply Unit

Certificate No: 681an-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
MX4000	2-8 loop Analogue Addressable Control and Indicating Equipment	681an/01
	Notes:	
	1)The following product variants are approved -	
	Finished goods No. 557.200.003, MX4000 1-4 loop CIE, shallow housing	
	Finished goods No. 557.200.005, MX-BBX battery box, shallow housing	
	Finished goods No. 557.200.004, MX4000 1-8 loop CIE, deep housing	
	Finished goods No. 557.200.006, MX-DPBX battery box, deep housing (door access)	
	Finished goods No. 557.200.016, MX-DPBX battery box, deep housing (plain cover access)	
	Finished goods No. 557.200.009, MX4000 1-4 loop, flush housing	
	Finished goods No. 557.200.019, MX-BBX-F battery box, flush housing	
	Incorporating as modular units:	
	OCM800 Operator Control Module	
	ODM800 Operator Display Module	
	CPU800 Main CPU module	
	FIM802 Field Interface Module drives 1 or 2 loops	
	PSU830 Power Supply Module	
	and as optional modular units:	
	XLM800 Expansion Loop Module drives 1 or 2 additional loops	
	ANN840 40 + 40 LED Annunciator module	
	ANN880 80 LED Annunciator module	
	COM820 20 way Status Command Module	
	MPM800 Multi-Purpose Interface Module	
	IOB800 Input/Output Expansion Board	
	FB800 Fuse Board	
	Certified with the following options with requirements from EN 54 Part 2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routing equipment	
	7.10.1 Outputs to fire protection equipment (Type A)	
	7.10.2 Outputs to fire protection equipment (Type B)	
	7.10.3 Outputs to fire protection equipment (Type C)	
	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal (Type A dependency)	
	7.12.2 Dependencies on more than one alarm signal (Type B dependency)	
	7.12.3 Dependencies on more than one alarm signal (Type C dependency)	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of addressable points	

	10 Test condition	
	11 Standardized input/output interface	
MXR	Repeater panel is approved for use with the MX4000 Control and Indicating	681an/R01
	Notes:	
	1)The following product variants are approved -	
	Finished goods No. 557.200.013, MXR-PSU repeater	
	Finished goods No. 557.200.018, MXR-PSU-F repeater flush housing	
	Finished goods No. 557.200.012, MXR repeater	
	Finished goods No. 557.200.017, MXR-F repeater flush housing	
	Incorporating as modular units:	
	OCM800 Operator Control Module	
	ODM800 Operator Display Module	
	PSU830 Power Supply Module	
	and as optional modular units:	
	ANN840 40 + 40 LED Annunciator	
	ANN880 80 LED Annunciator	
	MPM800 Multi Purpose Interface Module	
	IOB800 Input/Output Expansion Board	
	FB800 Fuse Board	

Certificate No: 681au-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Pro215S	1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing	681au/01
	Incorporating the following units:	
	PR1DS Profile User Interface	
	PFI800 Profile Panel Field Interface Board	
	PSU (BAQ140T24) Power Supply Unit	
	Incorporating the following optional units:	
	ProR1DS Profile Reduced User Interface	
	PNI800 Profile Network Interface Slot Card	
	FOM800 Fibre Optic Module	
	PCS800 Profile Ethernet switch	
	FB800 Fuse Board	
	TUD800 Triggering Board for transmission unit	
	IOB800 Input/ Output Expansion Board	
	FBI800 Fire Brigade Interface	
	PS-12170 2x17Ah Batteries	
	557.202.140 Zettler Connected Service Gateway (Internal)	
	557.202.145 EN 54 Gateway Cell Module	
	Certified with the following options with requirements from EN54-2:	

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro 215D — 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing — 681au/02

Incorporating the following units:

PR1DS	Profile User Interface
PFI800	Profile Panel Field Interface Board
PSC400	Profile Backplane 4 Slots
PSU (BAQ140T24)	Power Supply Unit

Incorporating the following optional units:

ProR1DS	Profile Reduced User Interface
PNI800	Profile Network Interface Slot Card
FOM800	Fibre Optic Module
PCS800	Profile Ethernet switch
POS800-S	Fibre Optic Switch Single Mode
POS800-M	Fibre Optic Switch Multi Mode
FB800	Fuse Board
CD5.241	DC-DC Converter (24V input and 24V output)
TUD800	Triggering Board for transmission unit
SM3	Serial Interface to FAT
IOB800	Input/ Output Expansion Board
FBI800	Fire Brigade Interface
PS-12380	2x38Ah Batteries

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro815D — 4-8 Loops Analogue Addressable Control & Indicating Equipment — 681au/04

Incorporating the following units:

PR1DS Profile User Interface

PFI800 Profile Panel Field Interface Board

PSC400 Profile Backplane 4 Slots

PSU (BAQ140T24) Power Supply Unit

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface

PNI800 Profile Network Interface Slot Card

FOM800 Fibre Optic Module

PLX800 Profile Loop Expansion Slot Card

PCS800 Profile Ethernet switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi Mode

FB800 Fuse Board

CD5.241 DC-DC Converter (24V input and 24V output)

TUD800 Triggering Board for transmission unit

SM3 Serial Interface to FAT

IOB800 Input/ Output Expansion Board

FBI800 Fire Brigade Interface

PS-12380 2x38Ah Batteries

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro885D — 4-8 Loops Analogue Addressable Control & Indicating Equipment — 681au/05

Incorporating the following units:

PR1DS Profile User Interface

PFI800 Profile Panel Field Interface Board

PSC400 Profile Backplane 4 Slots

PZ8x 80way Zonal Display

PSU (BAQ140T24) Power Supply Unit

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface

PNI800 Profile Network Interface Slot Card

FOM800 Fibre Optic Module

PLX800 Profile Loop Expansion Slot Card

PCS800 Profile Ethernet switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi Mode

FB800 Fuse Board

CD5.241 DC-DC Converter (24V input and 24V output)

TUD800 Triggering Board for transmission unit

SM3 Serial Interface to FAT

IOB800 Input/ Output Expansion Board

PZ4x 40way Zonal Display

FBI800 Fire Brigade Interface

PS-12380 2x38Ah Batteries

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro815D-CH	4-8 Loops Analogue Addressable Control & Indicating Equipment	681au/06

Incorporating the following units:

PR1DS Profile User Interface

PFI800 Profile Panel Field Interface Board

PSC400 Profile Backplane 4 Slots

SFK800 Swiss Fire Brigade Interface

PSU (BAQ140T24) Power Supply Unit

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface

PNI800 Profile Network Interface Slot Card

FOM800 Fibre Optic Module

PLX800 Profile Loop Expansion Slot Card

PCS800 Profile Ethernet switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi Mode

FB800 Fuse Board

CD5.241 DC-DC Converter (24V input and 24V output)

TUD800 Triggering Board for transmission unit

SM3 Serial Interface to FAT

IOB800 Input/ Output Expansion Board

FBI800 Fire Brigade Interface

PS-12260 2x26Ah Batteries

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

PR8AS	Repeater Panel	681au/R01
	Approved for use with the Pro215S, Pro215D, Pro815D, Pro885D Control & Indicating Equipment	
	Incorporating the following modules:	
	PR1DS Profile User Interface	
	PZ8x Profile 80 Way Zone Display	
	PMM800 Profile Supply Module	
	BAW75T24 Power Supply Unit	
PR1AS-CH	Repeater Panel	681ag/R02
	Approved for use with the Pro815D-CH Control & Indicating Equipment	
	Incorporating the following modules:	

PR1DS Profile User Interface

SFK800 Swiss Fire Brigade Interface

PMM800 Profile Supply Module

BAW75T24 Power Supply Unit

Certificate No: 681au-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
FC702S	1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing	681au/01
	Incorporating the following units:	
	FC1DS Profile User Interface	
	PFI800 Profile Panel Field Interface Board	
	PSU Power Supply Unit (BAQ140T24)	
	Incorporating the following optional units:	
	ProR1DS Profile Reduced User Interface	
	PNI800 Profile Network Interface Slot Card	
	FOM800 Fibre Optic Module	
	PCS800 Profile Ethernet switch	
	FB800 Fuse Board	
	TUD800 Triggering Board for transmission unit	
	IOB800 Input/ Output Expansion Board	
	FBI800 Fire Brigade Interface	
	PS-12170 2x17Ah Batteries	
	557.202.146 FireClass Connected Service Gateway (internal)	
	557.202.145 EN 54 Gateway Cell Module	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.9.2 Alarm confirmation input from fire alarm routing equipment	
	7.10.1 Output type A	
	7.10.2 Output type B	
	7.10.3 Output type C	
	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each address point	
	10 Test condition	
	11 Output to standardised input/output interface	

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

FC702D 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing 681au/02

Incorporating the following units:

FC1DS	Profile User Interface
PFI800	Profile Panel Field Interface Board
PSC400	Profile Backplane 4 Slots
PSU	Power Supply Unit (BAQ140T24)

Incorporating the following optional units:

ProR1DS	Profile Reduced User Interface
PNI800	Profile Network Interface Slot Card
FOM800	Fibre Optic Module
PCS800	Profile Ethernet switch
POS800-S	Fibre Optic Switch Single Mode
POS800-M	Fibre Optic Switch Multi Mode
FB800	Fuse Board
CD5.241	DC-DC Converter (24V input and 24V output)
TUD800	Triggering Board for transmission unit
SM3	Serial Interface to FAT
IOB800	Input/ Output Expansion Board
FBI800	Fire Brigade Interface
PS-12380	2x38Ah Batteries
557.202.146	FireClass Connected Service Gateway (internal)
557.202.145	EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment
7.10.1	Output type A
7.10.2	Output type B
7.10.3	Output type C
7.10.4	Fault monitoring of fire protection equipment
7.11	Delays to outputs
7.12.1	Dependencies on more than one alarm signal – Type A
7.12.2	Dependencies on more than one alarm signal – Type B
7.12.3	Dependencies on more than one alarm signal – Type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

FC718D — 4-8 Loops Analogue Addressable Control & Indicating Equipment — 681au/04

Incorporating the following units:

FC1DS Profile User Interface

PFI800 Profile Panel Field Interface Board

PSC400 Profile Backplane 4 Slots

PSU Power Supply Unit (BAQ140T24)

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface

PNI800 Profile Network Interface Slot Card

FOM800 Fibre Optic Module

PLX800 Profile Loop Expansion Slot Card

PCS800 Profile Ethernet switch

POS800-S Fibre Optic Switch Single Mode

POS800-M Fibre Optic Switch Multi Mode

FB800 Fuse Board

CD5.241 DC-DC Converter (24V input and 24V output)

TUD800 Triggering Board for transmission unit

SM3 Serial Interface to FAT

IOB800 Input/ Output Expansion Board

FBI800 Fire Brigade Interface

PS-12380 2x38Ah Batteries

557.202.146 FireClass Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal - Type A

7.12.2 Dependencies on more than one alarm signal - Type B

7.12.3 Dependencies on more than one alarm signal - Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

FC708D 4-8 Loops Analogue Addressable Control & Indicating Equipment 681au/05

Incorporating the following units:

FC1DS	Profile User Interface
PFI800	Profile Panel Field Interface Board
PSC400	Profile Backplane 4 Slots
PZ8x	80way Zonal Display
PSU	Power Supply Unit (BAQ140T24)

Incorporating the following optional units:

ProR1DS	Profile Reduced User Interface
PNI800	Profile Network Interface Slot Card
FOM800	Fibre Optic Module
PLX800	Profile Loop Expansion Slot Card
PCS800	Profile Ethernet switch
POS800-S	Fibre Optic Switch Single Mode
POS800-M	Fibre Optic Switch Multi Mode
FB800	Fuse Board
CD5.241	DC-DC Converter (24V input and 24V output)
TUD800	Triggering Board for transmission unit
SM3	Serial Interface to FAT
IOB800	Input/ Output Expansion Board
PZ4x	40way Zonal Display
FBI800	Fire Brigade Interface
PS-12380	2x38Ah Batteries
557.202.146	FireClass Connected Service Gateway (internal)
557.202.145	EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output type A

7.10.2 Output type B

7.10.3 Output type C

7.10.4 Fault monitoring of fire protection equipment

	7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13	
FC8AS	Repeater Panel Approved for use with the FC702S, FC702D, FC718D, FC708D Control & Indicating Equipment Incorporating the following modules: FC1DS Profile User Interface PZ8x Profile 80 Way Zone Display PMM800 Profile Supply Module BAW75T24 Power Supply Unit	681au/R01

Certificate No: 681bb-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
Pro215S Lite	1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Zettler Profile Lite (557.202.910) Zettler Profile Lite Red Housing (557.202.910.R) Incorporating the following modules: PFI801 Field Interface CUI Colour User Interface BAW75T24 2.5 A PSU Incorporating the following optional units: PNI800 Network Interface FBI800 Fire Brigade Interface FB800 Fuse Board 557.202.140 Zettler Connected Service Gateway (internal) 557.202.145 EN 54 Gateway Cell Module	681bb/01

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Pro415S Lite — 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing — 681bb/02

Zettler Profile Lite (557.202.911),

Zettler Profile Lite Red Housing (557.202.910.R)

Incorporating the following modules:

PFI800 Field Interface

CUI Colour User Interface

BAQ140T24 5 A PSU

Incorporating the following optional units:

PNI800 Panel Network Interface

FBI800 Fire Brigade Interface

FB800 Fuse Board

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10. 1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Pro415D Lite — 2-4 Loop Analogue Addressable Control and Indicating Equipment, Deep Housing — 681bb/03

Zettler Profile Lite (557.202.916)

Incorporating the following modules:

PFI800 Field Interface

CUI Colour User Interface

BAQ140T24 5 A PSU

Incorporating the following optional units:

PNI800 Panel Network Interface

FBI800 Fire Brigade Interface

FB800 Fuse Board

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10. 1 Output to fire protection equipment- Output type

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Pro215S-CH Lite Swiss — 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing — 681bb/04

Zettler Profile Lite (557.202.912)

Incorporating the following modules:

PFI801 Field Interface

CUI Colour User Interface

SFK800 Swiss Interface

BAW75T24 2.5 A PSU

Incorporating the following optional units:

PNI800 Panel Network Interface

FBI800 Fire Brigade Interface

FB800 Fuse Board

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10. 1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Pro415S-CH Lite Swiss — 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing — 681bb/05

Zettler Profile Lite Swiss (557.202.913)

Incorporating the following modules:

PFI800 Field Interface

CUI Colour User Interface

SFK800 Swiss Interface

BAQ140T24 5 A PSU

Incorporating the following optional units:

PNI800 Panel Network Interface

FBI800 Fire Brigade Interface

FB800 Fuse Board

557.202.140 Zettler Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10. 1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal- Type A	
	7.12.2 Dependencies on more than one alarm signal -Type B	
	7.12.3 Dependencies on more than one alarm signal -Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.9 Output to fault warning routing equipment	
	9.5 Disablement of each address point	
	10 Test condition	
	11 Output to standardised input/output interface	
	Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
P32AR LT	32 Zone AC Repeater, Zettler (557.202.914) Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module BAW75T24 Power Supply Unit, 2.5 A Note: Approved for use with the Pro215S Lite, Pro415S Lite and Pro415D Lite.	681bb/R01
P32DR LT	32 Zone DC Repeater, Zettler (557.202.915) Incorporating the following modules: CUI-R Repeater Colour User Interface Note: Approved for use with the Pro215S Lite, Pro415S Lite, Pro415D Lite.	681bb/R02
P32AR-CH LT	32 Zone AC Repeater, Zettler Swiss (557.202.922) Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module SFK800 Swiss Interface BAW75T24 Power Supply Unit, 2.5 Note: Approved for use with the Pro215S-CH Lite Swiss and Pro415S-CH Lite Swiss.	681bb/R03
P32DR-CH LT	32 Zone DC Repeater, Zettler Swiss (557.202.923) Incorporating the following modules: CUI-R Repeater Colour User Interface SFK800 Swiss Interface	681bb/R04

Note:

Approved for use with the Pro215S-CH Lite Swiss and Pro415S-CH Lite Swiss.

Certificate No: 681bb-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
FC602S	1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing	681bb/01

Incorporating the following modules:

PFI801-FC Field Interface

CUI Colour User Interface

BAW75T24 2.5 A PSU

Incorporating the following optional modules:

PNI800 Panel Network Interface

FB800 Fuse Board

557.202.146 FireClass Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

FC604S — 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FireClass (557.200.651) — 681bb/02

Incorporating the following modules:

PFI801-FC Field Interface

CUI Colour User Interface

BAQ140T24 5 A PSU

Incorporating the following optional modules:

PNI800 Profile Network Interface

FB800 Fuse Board

557.202.146 FireClass Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

FC602S Lite Scandinavian 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing 681bb/06

FireClass Scandinavian (557.200.652)

Incorporating the following modules:

PFI801-FC Field Interface

CUI Colour User Interface

BAW75T24 2.5 A PSU

Incorporating the following optional units:

PNI800 Panel Network Interface

FB800 Fuse Board

557.202.146 FireClass Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

FC604S Lite Scandinavian 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing 681bb/07

FireClass Scandinavian (557.200.653)

Incorporating the following Modules:

PFI800-FC Field Interface

CUI Colour User Interface

BAQ140T24 5 A PSU

Incorporating the following optional units:

PNI800 Panel Network Interface

FB800 Fuse Board

557.202.146 FireClass Connected Service Gateway (internal)

557.202.145 EN 54 Gateway Cell Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.9.1 Output to fire alarm routing equipment

7.9.2 Alarm confirmation input from fire alarm routing equipment

7.10.1 Output to fire protection equipment- Output type A

7.10.2 Output to fire protection equipment- Output type B

7.10.3 Output to fire protection equipment- Output type C

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.12.3 Dependencies on more than one alarm signal -Type C

7.13 Alarm counter

8.3 Fault signals from points

8.9 Output to fault warning routing equipment

9.5 Disablement of each address point

10 Test condition

11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

FC32AR — 32 Zone AC Repeater, FireClass 557.202.914 — 681bb/R01

Incorporating the following modules:

CUI-R Repeater Colour User Interface

PMM800 Power Monitor Module

BAW75T24 Power Supply Unit, 2.5 A

Note:

Approved for use with the FC602S and FC604S.

FC32DR	32 Zone DC Repeater, FireClass 557.202.915 Incorporating the following modules: CUI-R Repeater Colour User Interface Note: Approved for use with the FC602S and FC604S.	681bb/R02
FC32AR-S	32 Zone AC Repeater, FireClass Scandinavian (557.200.656)Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module BAW75T24 Power Supply Unit, 2.5 A Note: Approved for use with the FC602S Lite Scandinavian and FC604S Lite Scandinavian.	681bb/R05
FC32DR-S	32 Zone DC Repeater, FireClass Scandinavian (557.200.657) Incorporating the following modules: CUI-R Repeater Colour User Interface Note: Approved for use with the FC602S Lite Scandinavian and FC604S Lite Scandinavian.	681bb/R06

V-GREAT GLOBAL CORPORATION

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Certificate No: 1174e-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
VG-6831/16	16 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/01
VG-6831/8	8 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.042 8 Zone Control Board	1174e/02

	VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
VG-6831/4	4 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/03
VG-6831/2	2 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/04

Certificate No: 1174j-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Product Name	Description	LPCB Ref. No
VG-6847	4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board	1174j/01

VSL7-820-150 Zone Board

VSL7-820-154 Network Card

LRS-150-24 MEAN-WELL Power Supply module

Certified with the following option with requirements for EN54-2:

7.8 Output to fire alarm devices

7.10.1 Outputs to fire protection equipment (Type A)

7.10.2 Outputs to fire protection equipment (Type B)

7.10.3 Outputs to fire protection equipment (Type C)

7.10.4 Fault monitoring of fire protection equipment

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal (Type A dependency)

7.12.2 Dependencies on more than one alarm signal (Type B dependency)

7.12.3 Dependencies on more than one alarm signal (Type C dependency)

7.13 Alarm Counter

9.5 Disablement of addressable point

10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality

2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

VIVA ELEKTRONIK SISTEMLER

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Certificate No: 1426g-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
VI FCP-1L	Single Loop Analogue Addressable Fire Alarm Control Panel	1426g/01
	Incorporating the following modules:	
	SEC3002_IO IO Board	
	SEC3002_B Monitoring Board (B Board)	
	ZB-9100-A Main CPU Board (A Board)	
	PSE10_KZ Power Supply	
	SEC3002_QK Zone Indication Board	
	SEC3002_KEY Key Board	
	SEC3002_FL1 Loop SPU Board	
	Incorporating the following optional modules:	
	SEC3002_COM Communication Board	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm devices	
	7.10.1 Output type A	

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disablement of addressable point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

2. Scope of approval does not include the operation of the network functionality.

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 1255d-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006 EN 54-16:2008 EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006, EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006 , EN 54-16:2008

Control & Indicating Equipment

Product Name	Description	LPCB Ref. No
EST3	Combined Control and Indication Equipment and Voice Alarm Control and Indicating Equipment System	1255d/01
	Incorporating as modular units:	
	3-CPU3-E Central Processor Unit	
	3-LDSM-E Annunciator strip support module	
	3-IDC 8/4-E Initiating Device Circuits/NACS	
	3-LCD-E Main Display LCD, user interface	
	3-LRMF-E Local Rail Module Filler	
	EST3 24 LED Annunciators	
	3-24Y-E Annunciator Module, 24 Yellow LED	
	3-24R-E Annunciator Module, 24 Red LED	
	3-24G-E Annunciator Module, 24 Green LED	
	3-12RY-E Annunciator Module, 12 Red/Yellow LED	
	EST3 18 LED Annunciators	
	3-6/3S1G2Y-E Annunciator Module, 18 Green/Yellow LED	
	3-6/3S1GYR-E Annunciator Module, 18 Green/Yellow/Red LED	
	EST3 Control-Display Switch/LEDs	
	3-12SY-E Annunciator Module, 12 Switch Yellow LED	
	3-12SR-E Annunciator Module, 12 Switch Red LED	
	3-12SG-E Annunciator Module, 12 Switch Green LED	
	3-12/S1GY-E Annunciator Module, 12/24 Switch Green/Yellow LED	
	3-12/S1RY-E Annunciator Module, 12/24 Switch Red/Yellow LED	
	Loop Controller Modules	
	3-SSDC2-E Signature (Single), driver controller module	
	3-SDDC2-E Signature (Dual), driver controller modul	
	3-AADC1-E System Sensor driver controller modul	

3-SDC1-E	Signature, driver controller module
3-EAC-E	Edwards Analogue Driver Card
3-EASC2-E	Edwards (single) driver controller module
3-EADC2-E	Edwards (dual) driver controller module

Power Supplies

3-PPS/M-230-E	Primary Power Supply 230V
3-BPS/M-230-E	Booster Power Supply 230V
3-BBC/M-230-E	Booster, Battery Charger Power Supply 230V
3-PSMON-E	Primary Power Supply Monitor
3-BPMON-E	Booster Power Supply Monitor
3-BBCMON-E	Booster, Battery Charger Monitor
4-PPS/M-E	Primary Power Supply (4-PPS/PS10-4B and 4-PSMON-E)
3-PPSKIT	Power Supply Kit

Communication Cards

3-RS485A-E	Data Communication, Class A
3-RS485B-E	Data Communication, Class B
3-RS232-E	Serial Communications Card (Printer, etc)
EFM-2	Data Communications Filter - 2 Circuits
EFM-10	Data Communications Filter - 10 Circuit

Fibre Modules

3-FIBMB2-E	Fibre Optic Interface Module
SMXLO2-E	Standard Output Single Mode Fibre Optic Transceiver
SMXHI2-E	High Output Single Mode Fibre Optic Transceiver
MMXVR-E	Standard Output Multimode Fibre Optic Transceiver

Enclosure Assemblies

3-CAB7B-E	CAB7 Enclosure Backbox
3-CAB14B-E	CAB14 Enclosure Backbox
3-CAB21B-E	CAB21 Enclosure Backbox
3-CAB7D(R)-E	CAB7 Inner/Outer Enclosure Doors - (R) indicates red
3-CAB14D(R)-E	CAB14 Inner/Outer Enclosure Doors - (R) indicates red
3-CAB21D(R)-E	CAB21 Inner/Outer Enclosure Doors - (R) indicates red

Remote Chassis Cabinets

3-RCC7R-E	Remote Closet Cabinet, Single Chassis - Red
3-RCC14R-E	Remote Closet Cabinet, Two Chassis - Red
3-RCC21R-E	Remote Closet Cabinet, Three Chassis - Red
3-BTSEN-E	Remote battery cabinet interlace, temperature sensing
BC-1	Battery Cabinet
3-TAMP	Tamper Switch for 3-CAB7/14/21 Cabinets

3-TAMPRCC Tamper Switch for 3-RCC Cabinet

Audio & Telephone Common Controls - Chassis Assemblies

3-CHAS7-E Module - Chassis Assy for 7 LRMs

3-CHASS4-E Module - Chassis Assy for REMIC & 4 LRMs

3-ASU-E Audio Source Unit with a 3-Chassis

3-ASU/4-E Audio Source Unit with 4 LRM slots

3-ASUMX/100 100 minute extended audio memory card

3-ASU/FT-EN Audio Source Unit with Fire Fighter Telephone

3-FTCU-E Firefighter Telephone Control Unit

3-ZA20A-E 20 watt Zone Amplifier, Class B

3-ZA40A-E 40 watt Zone Amplifier, Class A

3-ZA40B-E 40 watt Zone Amplifier, Class B

3-BATS Battery Shelf for Single 65AH Cell

3-CBLKIT1 Extended Rail Cable Kit

3-CPUDR CPU Door Kit

Certified with the following options with requirements from EN 54-2

7.8 Output to fire alarm devices

7.13 Alarm counter

8.3 Fault Signals from points

10 Test condition

Certified with the following options with requirements from EN 54-16

7.3 Audible warning

7.4 Delay(s) to entering the voice alarm condition

7.5 Phased evacuation

7.6.2 Manual silencing of the voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.4 Indication of faults related to voice alarm zones

9 Disablement condition

10 Voice alarm manual control

12 Emergency microphone(s)

13.14 Redundant power amplifiers

Notes:

1. Scope of approval does not include the operation of the network functionality

2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Incorporating as modular units:

3-ANNCPU3-E Remote Annunciator CPU with a 3-LCD

3-ANNSM-E Remote (repeater) Annunciator Support Module

3-LCDANN-E	LCD Display and User Interface for Remote Annunciator
Annunciator Back Boxes and Doors Assemblies	
3-10ANN-E	Remote Annunciator Back Box, 10 slots, with Door
3-10ANN/D-E	Inner/Outer Door Assembly for 3-10ANN-E
10ANN/B	Flush Mount Backbox for 3-10ANN-E
10ANN/B-S	Surface Mount Backbox for 3-10ANN-E
3-6ANN-E	Remote Annunciator Back Box, 6 slots, with Door
3-6ANN/D-E	Inner/Outer Door Assembly for 3-6ANN-E
6ANN/B	Flush Mount Backbox for 3-6ANN-E
6ANN/B-S	Surface Mount Backbox for 3-6ANN-E
3-RLCM/D-E	EST3 Remote Annunciator Door Assembly
RLCM/B	Remote Annunciator Flush Mount Backbox
RLCM/B-S	Remote Annunciator Surface Mount Backbox
3-FP	Blank Filler Plate
3-XFP	Blank Filler Plate for 3-CAB Cabinet Series
3-LKE	Label Insert Kit- English
3-LKR	Label Insert Kit- Russian
3-LKS	Label Insert Kit- Spanish
3-LKF	Label Insert Kit - French

Notes:
1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and fire alarm system requirements of EN54-13.

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

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Certificate No: 1450g to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
JB-TB-TC5109	1-4 Loops Analogue Addressable Fire Alarm Control Panel	1450g/01
	Incorporating the following modules:	
	TC5109-Main Main board	
	TC5109-Loop Loop board	
	TC5109-XZB Loop base board	
	TC5109-Key Keypad board	
	TC5109-ZX Zone and FPE indicator board	
	TC5109-LCD Display board	
	TC5109-SCR Indicator board	
	TC5120-RS485 RS485 board	
	TC5000-MAIN-CAN CAN board	
	TC5109-LB1 Filter board 1	
	TC5109-LB2 Filter board 2	

TC5109-POW Power Supply Equipment

Certified with the following options with requirements:

7.8 Output to fire alarm device(s)

7.10.1 Output to automatic fire protection equipment Type A

7.10.2 Output to automatic fire protection equipment Type B

7.10.3 Output to automatic fire protection equipment Type C

8.3 Fault signals from point

9.5 Disablement of addressable points

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 1043a-(cl-1) to EN 54-16: 2008 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
ASL Rack mount voice alarm system	ASL Rack Mount VACIE	1043a/01

Incorporating any of the following modules:

VAR Series Routers:

VAR4(EN54) Router 4x4 DSP – EN54

VAR12(EN54) Router 12x12 DSP – EN54

VAR20(EN54) Router 20x20 DSP – EN54

VIPEDIA-12 Series Routers:

VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

VIPEDIA-12-NET VIPEDIA 12x12 IP Voice Alarm Router with Networking Card (Consists of VIPEDIA-12 and VIPEDIA-NET)

VIPEDIA-12-PRO VIPEDIA 12x12 IP Voice Alarm Router with Dante DSP Audio Processor (Consists of VIPEDIA-12 and VIPEDIA-PRO)

VIPEDIA-12 Optional modules:

VIPEDIA-NET VIPEDIA-12 Network Card

VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

VIPEDIA-PRO VIPEDIA-12 Network Card with Dante DSP Audio Processor

SFP Optional Adaptors:

SFP-CU1G SFP Module (Copper Ethernet)

SFP-MM1GL SFP Module (Multi-mode Fibre)

SFP-MM1GC SFP Module (Multi-mode Fibre)

SFP-SM1G SFP Module (Single-mode Fibre)

Network Switches:

NETWORK-SWITCH-MM4 Multi-mode Secure Loop Switch (2*Fibre, 2*RJ45)

NETWORK-SWITCH-SM4 Single-mode Secure Loop Switch (2*Fibre, 2*RJ45)

NETWORK-SWITCH-MM8 Multi-mode Secure Loop Switch (2*Fibre, 6*RJ45)

NETWORK-SWITCH-SM8 Single-mode Secure Loop Switch (2*Fibre, 6*RJ45)

NETWORK-SWITCH-NF8 Secure Loop Switch (8*RJ45)

NETWORK-SWITCH-LP01 Network Loop Switch (2*SFP, 8*RJ45)

Adaptors:

BOA01 RJ45 DIN Terminal Breakout Adaptor – Single Port – With Terminations

BOA02 RJ45 DIN Terminal Breakout Adaptor – Four Port – Straight Through

V2000 Amplifier Frame: V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

D500 Amplifier Module 500W

D150 Amplifier Module 150W

Amplifier interfaces for V2000 mainframe:

LSZDC Dual Line surveillance interface

V2000-STBY V2000 Standby Interface

V400 Amplifier frame: V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

M series amplifiers:

M100 Amplifier Module 100W

M200 Amplifier Module 200W

M400 Amplifier Module 400W

Amplifier interfaces for V400 mainframe:

LSDDC Dual Line Surveillance Interface

SSINT Standby Surveillance interface

X400 Amplifier frame: X400 Amplifier frame for housing MX series amplifiers

MX series amplifiers:

MX100 Amplifier Module 100W – MX Series

MX200 Amplifier Module 200W – MX Series

MX400 Amplifier Module 400W – MX Series

Power supply:

BPC65 Battery Charger with Mounting Tray – 65Ah – Inc. Cables and Breakers

BPC75 Battery Charger with Mounting Tray – 75Ah – Inc. Cables and Breakers

BPC130 Battery Charger with Mounting Tray – 130Ah – Inc. Cables and Breakers

Optional modules:

BMB01	RS485 Interfaced Analogue and Digital I/O Expansion Unit
EAP01	Emergency access point - All call emergency microphone
EMS01 (MK2)	Emergency microphone station - All call
EMS01-EC(MK2)	Emergency microphone station - All call with euro-cylinder lock
EMS10	Emergency microphone station - 10 Button
EMS10-EC	Emergency microphone station - 10 Button with euro-cylinder lock
EMS20	Emergency microphone station - 20 Button
EMS20-EC	Emergency microphone station - 20 Button with euro-cylinder lock
EMS30	Emergency microphone station - 30 Button
EMS40	Emergency microphone station - 40 Button
EMS50	Emergency microphone station - 50 Button
EMX30	Expansion module for EMS20 - 30 Button

MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

MPX10 Microphone expansion module for MPS01 - 10 Button

MPS01-MB Wall mount bracket kit for MPS01

MPX10-MBWall mount bracket kit for MPS10 - MPS20

Certified with the following options with requirements from EN 54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10 Voice Alarm Manual control (Except on VAR routers)

12 Emergency microphone(s)

13.14 Redundant power amplifiers

Notes:

1. The certification is valid only when the installation and configuration of the VACIE meet the manufacture's system design guide and EN 54-16 functionality

2. Refer to the ASL technical document reference number T-0667-0379 for further detail of ASL order numbers for product variants and third-party products tested and approved by BRE/LPCB to be used with or as part of ASL VACIE.

INTEGRA	ASL Wall Mounting VACIE	1043a/02

ASL Wall Mounting VACIE

Incorporating the following:

INTEGRA All-in-one Wall Mount Voice Alarm System for D Series amplifiers and amplifier interfaces

OR

INTEGRA-PRO All-in-one Wall Mount Voice Alarm System for D Series amplifiers and amplifier interfaces with Dante DSP Audio Processor (consists of INTEGRA and VIPEDIA-PRO)

D Series amplifiers:

D500 Amplifier Module 500W

D150 Amplifier Module 150W

Amplifier interfaces:

LSZDC Dual Line surveillance interface

V2000-STBY V2000 Standby Interface

Optional modules:

BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With Terminations

BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

VIPEDIA-NET Vipedia-12 Network Card

VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

VIPEDIA-PRO VIPEDIA-12 Network Card with Dante DSP Audio Processor

SFP Optional Modules:

SFP-CU1G SFP Module (Copper Ethernet)

SFP-MM1GL SFP Module (Multi-mode Fibre)

SFP-MM1GC SFP Module (Multi-mode Fibre)

SFP-SM1G SFP Module (Single-mode Fibre)

Optional Network Switches:

NETWORK-SWITCH-MM4 Multi-mode Secure Loop Switch (2*Fibre, 2*RJ45)

NETWORK-SWITCH-SM4 Single-mode Secure Loop Switch (2*Fibre, 2*RJ45)

NETWORK-SWITCH-MM8 Multi-mode Secure Loop Switch (2*Fibre, 6*RJ45)

NETWORK-SWITCH-SM8 Single-mode Secure Loop Switch (2*Fibre, 6*RJ45)

NETWORK-SWITCH-NF8 Secure Loop Switch (8*RJ45)

NETWORK-SWITCH-LP01 Network Loop Switch (2*SFP, 8*RJ45)

Optional Emergency Microphones:

EAP01 Emergency access point - All call emergency microphone

EMS01 (MK2) Emergency microphone station - All call

EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EMS10 Emergency microphone station - 10 Button

EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EMS20 Emergency microphone station - 20 Button

EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EMS30 Emergency microphone station - 30 Button

EMS40 Emergency microphone station - 40 Button

EMS50 Emergency microphone station - 50 Button

EMX30 Expansion module for EMS20 - 30 Button

MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic

MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic

MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic

MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic

MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic

MPX10 Microphone expansion module for MPS01 - 10 Button

MPS01-MB Wall mount bracket kit for MPS01

MPX10-MB Wall mount bracket kit for MPS10 - MPS20

Certified with the following options with requirements from EN 54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10.0 Voice Alarm Manual control

12.0 Emergency microphone(s)

13.14 Redundant power amplifiers

Notes:

1. The certification is valid only when the installation and configuration of the VACIE meet the manufactures system design guide and EN 54-16 functionality

2. Refer to the ASL technical document reference number T-0667-0379 for further detail of ASL order numbers for product variants and third-party products tested and approved by BRE/LPCB to be used with or as part of ASL VACIE.

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Certificate No: 330w to EN 54-2:1997 +A1:2006 EN 54-4:1997 +A1:2002 +A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
SMART 6	Smart Connect Multiloop 6 Port, 1-5 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network Module SCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	330w/01
SMART6/32	Smart Connect Multiloop 6 Port, 1-5 Loop Analogue Addressable Control and Indicating Equipment with 32 Zone LED	330w/02

	Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PPCB/MMP-ZLX32 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network Module SCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
SMART10/64	Smart Connect Multiloop 10 Port, 1-9 Loop Analogue Addressable Control and Indicating Equipment (Black Enclosure) Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PCB MMP-TERM/EXP Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network Module SCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points	330w/03

	9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
SMART10/P/64	Smart Connect Multiloop 10 Port, 1-9 Loop Analogue Addressable Control and Indicating Equipment with Printer Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PCB MMP-TERM/EXP Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB (64 zones) PCB/PSU-UL-15 Power Supply Controller (Charger PCB) BLD-400-V030-NNU uPowerTek Power Supply Unit (Third Party) SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network Module SCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module SCM-PM Printer Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	330w/04
SMART26/64	Smart Connect Multiloop 26 port, 1-16 Loop Analogue Addressable and Conventional Control and Indicating Equipment Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB MMP-TERM/EXP 5 x Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit	330w/05

	SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module SCM-ZMM Six Way Zone Monitor Module Optional modules: SCM-NM Network Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
SMART26/P/64	Smart Connect Multiloop 26 port, 1-16 Loop Analogue Addressable and Conventional Control and Indicting Equipment with Printer Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB MMP-TERM/EXP 5 x Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module SCM-ZMM Six Way Zone Monitor Module Optional modules: SCM-NM Network Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module SCM-PM Printer Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition	330w/06

	Notes: 1. Scope of approval does not include the operation of the network functionality. 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
SMART/REP	Smart Connect Multiloop LCD repeater Incorporating the following modules: MMP-DISP Display PCB MMP-REP_COM Repeater communication PCB Note: 1. Compatible with panels SMART6, SMART6/32, SMART10/64, SMART10/P/64, SMART26/64 & SMART26/P/64.	330w/R01

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Certificate No: 1395c to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Product Name	Description	LPCB Ref. No
AW-CFP2166-4	4 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Board 1 x 4 Zone Board Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1395c/01
AW-CFP2166-8	8 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Board 2 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements)	1395c/02

	7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
AW-CFP2166-12	12 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 3 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1395c/03
AW-CFP2166-16	16 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 4 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1395c/04
AW-CFP2166-20	20 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 5 x 4 Zonal Boards Asenware EMI EMI Board	1395c/05

	Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
AW-CFP2166-24	24 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 6 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1395c/06
AW-CFP2166-28	28 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 7 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1395c/07
AW-CFP2166-32	32 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board	1395c/08

Asenware PSE Power and Charger Board

Asenware Zonal Boards 8 x 4 Zone Boards

Asenware EMI EMI Board

Certified with the following options with requirements from EN54-2: 1997 + A1: 2006:

7.8 Output to fire alarm devices (option with requirements)

7.9.1 Output to fire alarm routing equipment (option with requirements)

7.10.1 Output type A (option with requirement)

7.10.2 Output type B (option with requirement)

8.9 Output to fault warning routing equipment (option with requirements)

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Statistics show that Government initiatives, which have increased the amount of self-contained smoke alarms fitted in domestic dwellings, have had a significant impact in reducing the amount of deaths and injuries caused by fire in the UK.

In Section 1: Fire detection and fire alarm systems of the Building Regulations 2010, Document B1 Fire Safety in Dwellings it states that All new dwelling houses shall be provided with a fire detection and fire alarm system in accordance with the relevant recommendations of BS 5839-6 to at least a Grade D, Category LD3 standard

BS 5839-6 Grade D requires a system of one or more mains-powered smoke alarms each with an integral standby supply (i.e. battery back-up). The system may in addition incorporate one or more mains powered heat alarms, each with an integral standby supply.

LPCBs list of approved products in this section is intended to help you select equipment that complies with these regulatory requirements. The initial approval and continued approval processes of these types of detectors are outlined in scheme document SD078.

Products listed in this section have been approved to:

- BS 5446-2 *Fire detection and fire alarm devices for dwellings Part 2 Specification for heat alarms*
- EN 14604 *Smoke alarm devices*
- EN 50291-1 *Electrical apparatus for the detection ofCarbon monoxide in domestic premises - Test method and performance requirements*
- EN 50291-2 *Electrical apparatus for the detection of Carbon monoxide in domestic premises - Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft-Additional test method and performance requirements.*

For domestic applications, care needs to be taken over the correct choice of the type of detector, its siting and the condition of batteries in order to maintain the alarm in accordance with the manufacturers requirements.

Further guidance is available from LPCB if required.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

4 Fire International ApS

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Certificate No: 1275c-(cl-1) to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
SMD18-01	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm	1275c/01
	Notes:	
	1. This smoke alarm uses a non-replaceable battery	
	2. Battery types approved with this domestic smoke alarm	
	- Pairdeer Lithium CR123A 3V	
	- HCB Primary Lithium CR17355/CR123A	
	- Energizer123 (EL123AP)	
	- EVE CR123A	

Al Tahadi Security And Safety Equipment Trading

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Certificate No: 506f-(cl-1) to EN 14604:2005

Smoke Alarms

Product Name	Description	LPCB Ref. No
OM-BS9	Single Station Smoke Detector	506f/01

Ambest Electronics (Ningbo) Co Ltd T/A Numens

55 Yunhui Road, Yingzhou District, Ningbo, Zhejiang, 315137, China
Tel: +86 574 82817218
E-mail: allen.cheng@numens.com

Certificate No: 1529a to EN 14604:2005

Smoke Alarms

Product Name	Description	LPCB Ref. No
205-001	Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/01
205-002	Smoke Alarm, 3V, User Replaceable Lithium Batterym Wireless Interconnect Notes: 1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/02
205-004	Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/03
205-005	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/04
205-014	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR17450	1529a/05
205-015	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect	1529a/06

Notes:

1. This smoke alarm uses a non-replaceable battery
2. Battery types approved with this domestic smoke alarm

- Lithium Huiderui CR17450

Demco Industries Sdn. Bhd.

Lot 3928, Jalan Keretapi Lama, Off Jalan Kapar 5 ½ Miles, Klang, Selangor Darul Ehsan, 42100, Malaysia
Tel: +60 3 3290 3333
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Certificate No: 1471a-(cl-2) to EN 14604: 2005/ AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
D-243-4	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 9V (Alkaline) Energizer Holdings (f). MN1604 9V (Alkaline) Duracell Incorporation (g). GP1604A 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/01
D-243-5	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 9V (Alkaline) Energizer Holdings (f). MN1604 9V (Alkaline) Duracell Incorporation (g). GP1604A 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/02
D-243-6	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd	1471a/03

(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd

(d). 6LR61 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd

(e). 522 9V (Alkaline) Energizer Holdings

(f). MN1604 9V (Alkaline) Duracell Incorporation

(g). GP1604A 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.

(h). PP1604E 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd

(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, Gwent, NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 685q-(cl-1) to EN 54-3: 2014 + A1: 2019

Smoke Alarms

Product Name	Description	LPCB Ref. No
DET-2R-SMOKE	Radio Linked Smoke Detector (SSR (Scantronic Secure Radio)) Notes: 1. Battery types approved with this smoke alarm: - Duracell Procell MN1500 AA 1.5V Alkaline cells - Eveready Energizer E91 AA 1.5V Alkaline cells Radio link functionality is not included with the scope of approval	685q/01

Products Extras
Standard Mounting Base

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham, B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 1471a-(cl-7) to EN 14604:2005/ AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
ES1SLV	Optical Smoke Alarm Powered by Mains with a Sealed Lithium Battery Back Up (Standard Mounting Base) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. The radio link functionality is not included within the scope of approval	1471a/06
ES1SRV	Optical Smoke Alarm Powered by Mains with a Replaceable 9V Battery Backup Notes:	1471a/07

1. Battery types approved with this domestic smoke alarm:

(a). MN1604 – 9V (Alkaline) Duracell Incorporation

(b). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd

(c). GP1604E – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd

(d). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd

ES1SR	Optical Smoke Alarm Powered by a Replaceable 9V Battery Backup Notes: 1. Battery types approved with this domestic smoke alarm: (a). MN1604 – 9V (Alkaline) Duracell Incorporation (b). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd (c). GP1604E – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd (d). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/08

Base
lounting Base

Certificate No: 1471b-(cl-1) to EN 14604:2005/ AC:2008, BS 5446-2:2003

Smoke Alarms

Product Name	Description	LPCB Ref. No
ES1MULV	Optical Smoke and Heat Alarm (Class A2) Powered by Mains with a Sealed Lithium Battery Backup (Standard Mounting Base) Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic smoke and heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. The radio link functionality is not included within the scope of approval	1471b/01

Base
lounting Base

Certificate No: 1471c-(cl-1) to BS 5446-2:2003

Heat Alarms

Product Name	Description	LPCB Ref. No
ES1HLV	Heat Alarm (Class A2) Powered by Mains with a Sealed Lithium Battery Backup (Standard Mounting Base) Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years)	1471c/01

	By Huizhou Huiderui Lithium Battery Technology Co., Ltd. The radio link functionality is not included within the scope of approval	
ES1HR	Heat Alarm (Class A2) Powered by a Replaceable 9V Battery Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic heat alarm: (a). 9V Duracell MN 1604 (b). 9V GP 1604A (c). 9V GP 1604E (d). 9V RayMax 6LR61	1471c/02
ES1HRV	Heat Alarm (Class A2) Powered by Mains with a Replaceable 9V Battery Backup Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic heat alarm: (a). 9V Duracell MN 1604 (b). 9V GP 1604A (c). 9V GP 1604E (d). 9V RayMax 6LR61	1471c/03

Base
lounting Base

Certificate No: 1471d-(cl-1) to BS 5446-2:2003, EN 50291-1:2018

Carbon Monoxide Alarms

Product Name	Description	LPCB Ref. No
ES1CHLV	Carbon Monoxide (Type A) and Heat Alarm (Class A2) Powered by Mains with a Sealed Lithium Battery Backup Notes: 1. Heat detector Class A2 only. 2. Battery types approved with this domestic CO and heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co., Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. Optional RF radio link functionality (requires optional LZ-1979 (ES1RF) RF Module) approved to requirements of EN 50291-1 only.	1471d/01

Certificate No: 1471e-(cl-1) to EN 50291-1:2018

Carbon Monoxide Alarms

Product Name	Description	LPCB Ref. No
ES1CLV	Carbon Monoxide Alarm (Type A) Powered by Mains with a Sealed Lithium Battery Backup Notes: 1. Battery types approved with this domestic CO alarm: (a). CR123A GP 3V Lithium Battery (10 Years)	1471e/01

By Guangzhou Great Power Energy & Technology Co., Ltd

(b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years)

By Huizhou Huiderui Lithium Battery Technology Co., Ltd.

Optional RF radio link functionality (requires optional LZ-1979 (ES1RF) RF Module) approved to requirements of EN 50291-1 only.

FireAngel Safety Technology Ltd

Vanguard Centre, Sir William Lyons Road, Coventry, CV4 7EZ, United Kingdom
Tel: +44 (0)2476 323232
E-mail: Info@fireangeltech.com • Website: www.fireangeltech.com

Certificate No: 651d to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
ST-630-XX	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm Note: 1. Battery types approved with this smoke alarm: · CR17335/T1 (EVE) · CR123AP-Tag (Hao Cheng) · Panasonic 3V CR-2/3AZ	651d/11
WST- 630-XX	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm - with RF Transceiver Module Notes: 1. The RF transmitter module is not covered within the scope of this approval 2. Battery types approved with this smoke alarm: - CR17335/T1 for alarm (EVE) - CR123AP-Tag for alarm (Hao Cheng) - Panasonic 3V CR-2/3AZ for alarm only	651d/12
WST-AE630-XX	AngelEye Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm - with RF Transceiver Module Notes: 1. The RF transmitter module is not covered within the scope of this approval 2. Battery types approved with this smoke alarm: - CR17335/T1 for alarm (EVE) - CR123AP-Tag for alarm (Hao Cheng) - Panasonic 3V CR-2/3AZ for alarm only	651d/12
ST-632-DE	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm Note: 1. Battery types approved with this smoke alarm: - CR17335/T1 (EVE) - CR123AP-Tag (Hao Cheng) - Panasonic 3V CR-2/3AZ	651d/13
ST-632	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm Note: 1. Battery types approved with this smoke alarm:	651d/13

	- CR17335/T1 (EVE) - CR123AP-Tag (Hao Cheng) - Panasonic 3V CR-2/3AZ	
WST-630N	Battery Operated Optical Smoke Alarm with RF Interconnect Module (10 Year Non-Replaceable Battery) Notes: 1. Battery types approved with this smoke alarm: - CR-2/3AZ (Panasonic) - CR17335EG (FDK) - CR123A (Huiderui)	651d/14
ST-630N	Battery Operated Optical Smoke Alarm (10 Year Non-Replaceable Battery) Notes: 1. Battery types approved with this smoke alarm: - CR-2/3AZ (Panasonic) - CR17335EG (FDK) - CR123A (Huiderui)	651d/15
ST-622N	Battery Operated Optical Smoke Alarm (10 Year Non-Replaceable Battery) Notes: 1. Battery types approved with this smoke alarm: - CR-2/3AZ (Panasonic) - CR17335EG (FDK) - CR123A (Huiderui)	651d/16
ST-750N	Battery Operated Optical Smoke Alarm (10 Year Non-Replaceable Battery) Notes: 1. Battery types approved with this smoke alarm: - CR-2/3AZ (Panasonic) - CR17335EG (FDK) - CR123A (Huiderui)	651d/16

Additional Information

XXX, denotes Country and Language variants

Suffix Description

Blank UK variant

DE Germany variant

FR France variant

NO Norway variant

NL Netherlands variant

FI Finland variant

ES Spain variant

BE Belgium variant

SE Sweden variant

AT Austria variant

IT Italy variant

DK Denmark variant

EU Generic European variant

BNL Dual-language variant for Belgium and the Netherlands (Dutch and French language)

NEU Northern Europe variant

SEU Southern Europe variant

CEU Central Europe variant

EEU Eastern Europe variant

INT International variant

PL Poland variant

SC Scandinavia variant

T Trade variant

R Retail variant

P Panasonic variant

V VDS variant

Frontier Safety Ltd UK

85 Great Portland Street, London, England, W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1529a-(cl-2) to EN 14604:2005

Smoke Alarms

Product Name	Description	LPCB Ref. No
FRN 205-01	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/01
FRN 205-02	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/02
FRN 205-04	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/03
FRN 205-05	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1. This smoke alarm uses a replaceable battery	1529a/04

2. Battery types approved with this domestic smoke alarm

- Lithium Huiderui CR123A

Guangdong Isafenest Co., Ltd

Rm402, Building 7, Tianfulai II, No 37 Changbao West Road, Ronggui, Shunde, Foshan City, Guangdong, 528305, China
Tel: +86-757-29382335
E-mail: scarlett.shun@letmesmarthome.com

Certificate No: 1471a to EN 14604:2005/AC:2008

Domestic Alarms

Product Name	Description	LPCB Ref. No
LZ-1901	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 - 9V (Alkaline) Energizer Holdings (f). MN1604 - 9V (Alkaline) Duracell Incorporation (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/01
LZ-1902	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 9V (Alkaline) Energizer Holdings (f). MN1604 9V (Alkaline) Duracell Incorporation (g). GP1604A 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/02
LZ-1903	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd	1471a/03

	(e). 522 9V (Alkaline) Energizer Holdings (f). MN1604 9V (Alkaline) Duracell Incorporation (g). GP1604A 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd (i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	
LZ-1921	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co.Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/04
LZ-1922	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co. Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/05
LZ-1923	230V AC with Battery Operated Photoelectric Smoke Alarm with 10 Year Non-replaceable Lithium Cell Battery Back Up (Standard Mounting Base) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. 2. The radio link functionality is not included within the scope of approval	1471a/06
LZ-1908	230V AC Mains Powered Optical Smoke Alarm with 9V Replaceable Battery Back-up Notes: 1. Battery types approved with this domestic smoke alarm: (a). MN1604 - 9V (Alkaline) Duracell Incorporation (b). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd (c). GP1604E - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd (d). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/07
LZ-1909	9V Replaceable Battery Operated Optical Smoke Alarm Notes: 1. Battery types approved with this domestic smoke alarm: (a). MN1604 - 9V (Alkaline) Duracell Incorporation (b). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd (c). GP1604E - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd	1471a/08

(d). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd

Base:

Standard Mounting Base

Certificate No: 1471b to EN 14604:2005/AC:2008, BS 5446-2:2003

Heat Alarms

Product Name	Description	LPCB Ref. No
LZ-6911	230V AC with Battery Operated Photoelectric Smoke and Heat Alarm with 10 Year Non-replaceable Lithium Cell Battery Back-up (Standard Mounting Base) Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic smoke and heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. 3. The radio link functionality is not included within the scope of approval	1471b/01

Base

Standard Mounting Base

Certificate No: 1471c to BS 5446-2:2003

Domestic alarms

Product Name	Description	LPCB Ref. No
LZ-7601	230V AC with Battery Operated Heat Alarm with 10-Year Non-Replaceable Lithium Cell Battery Back Up (Standard Mounting Base) Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. 3. The radio link functionality is not included within the scope of approval	1471c/01
LZ-7603	Heat Alarm with 9V replaceable battery Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic heat alarm: (a). 9V Duracell MN 1604	1471c/02

(b). 9V GP 1604A

(c). 9V GP 1604E

(d). 9V RayMax 6LR61

LZ-7605	230V AC Mains Powered Heat Alarm with 9V Replaceable Battery Back-up	1471c/03

Notes:

1. Meets the requirements of BS 5446-2 for Class A2

2. Battery types approved with this domestic heat alarm:

(a). 9V Duracell MN 1604

(b). 9V GP 1604A

(c). 9V GP 1604E

(d). 9V RayMax 6LR61

Base:

Standard Mounting Base

Certificate No: 1471d to BS 5446-2:2003, EN 50291-1:2018

Carbon Monoxide and Heat Alarm

Product Name	Description	LPCB Ref. No
LZ-6921	230V Mains Powered Multi (CO and Heat) Detector with 10 year Non-replaceable Lithium Cell Battery Back Up.	1471d/01

Notes:

1. Heat detector Class A2 only.

2. Battery types approved with this domestic CO and heat alarm:

(a). CR123A GP 3V Lithium Battery (10 Years)

By Guangzhou Great Power Energy & Technology Co., Ltd

(b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years)

By Huizhou Huiderui Lithium Battery Technology Co., Ltd.

Optional RF radio link functionality (requires optional LZ-1979 (ES1RF) RF Module) approved to requirements of EN 50291-1 only.

Certificate No: 1471e to EN 50291-1:2018

Carbon Monoxide Detector

Product Name	Description	LPCB Ref. No
LZ-2903	230V Mains Powered CO Detector with 10 Year Non-Replaceable Lithium Cell Battery Back Up	1471e/01

Notes:

1. Battery types approved with this domestic CO alarm:

(a). CR123A GP 3V Lithium Battery (10 Years)

By Guangzhou Great Power Energy & Technology Co., Ltd

(b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years)

By Huizhou Huiderui Lithium Battery Technology Co., Ltd.

Optional RF radio link functionality (requires optional LZ-1979 (ES1RF) RF Module) approved to requirements of EN 50291-1 only.

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien, 264, Taiwan ROC
Tel: +886 2 22487599

Certificate No: 506f to EN 14604:2005

Smoke Alarms

Product Name	Description	LPCB Ref. No
NQ9S	Single Station Smoke Detector	506f/01

NH Fire (Shenzhen) Co., Ltd

Zaoan Business Centre,, No. 5 in Shiling Industrial Park, Nanshan District, Shenzhen, 518000, China
Tel: 86-755-2818-4905

Certificate No: 1529a-(cl-3) to EN 14604:2005/ AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
HSA030101	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/03
HSA030050WI	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/04
HSA0301WI	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR17450	1529a/06

Ningbo Kingdun Electronic Industry Co Ltd

No 28 Fengyuan Road, South of Economic Development Area, Yuyao City, Zhejiang Province, 315400, China
Tel: 86-13245660018
E-mail: eric@kingdun.com

Certificate No: 1275a to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
LM-107A	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm Notes:	1275a/01

	1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Pairdeer Lithium CR123A 3V - HCB Primary Lithium CR17355/CR123A - Energizer123 (EL123AP) - EVE CR123A	
LM-107B	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Pairdeer Lithium CR123A 3V - HCB Primary Lithium CR17355/CR123A - Energizer123 (EL123AP) - EVE CR123A	1275a/02
LM-107C	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Pairdeer Lithium CR123A 3V - HCB Primary Lithium CR17355/CR123A - Energizer123 (EL123AP) - EVE CR123A	1275a/03
KD-122LA	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/22
KD-108A	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm (Standard Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm are: - EVE CR123A - Pairdeer CR123A - Fanso CR123A - HCB CR123A	1275a/25
KD-108B	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm (Standard Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm are: - EVE CR123A - Pairdeer CR123A - Fanso CR123A - HCB CR123A	1275a/26
KD-108C	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm (Standard Mounting Plate)	1275a/27

	Notes: 1. Battery types approved with this domestic smoke alarm are: - EVE CR123A - Pairdeer CR123A - Fanso CR123A - HCB CR123A	
KD-108D	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm (Standard Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm are: - EVE CR123A - Pairdeer CR123A - Fanso CR123A - HCB CR123A	1275a/28
KD-108E	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm (Standard Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm are: - EVE CR123A - Pairdeer CR123A - Fanso CR123A - HCB CR123A	1275a/29
KD-108F	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm (Standard Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm are: - EVE CR123A - Pairdeer CR123A - Fanso CR123A - HCB CR123A	1275a/30

Base:

502003 Mounting Plate

Ningbo Sentek Electronics Co. Ltd

448 Yingchun Road, Wangchun Industrial Park, Ningbo City, 315175, China
Tel: 0086-574-8715 5635
E-mail: service@sentek.cc • Website: http://www.sentek.cc/

Certificate No: 1050b to EN 14604:2005

Product Name	Description	LPCB Ref. No
SK-20	Domestic Smoke Alarm (Mounting Plate) Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this smoke alarm:	1050b/01

· Energizer 3V Lithium EL123AP

· EVE 3V Lithium CR17335

· Huizhou Huiderui 3V Lithium CR123A/CR17345

SK40	Battery Operated Domestic Smoke Alarm Notes: 1. This smoke alarm uses a replaceable 9V battery 2. Battery types approved with this smoke alarm: · Pairdeer 6F22 (Carbon Zinc battery) · Pairdeer 6LR61 (Alkaline battery) · Pairdeer CR-V9 (Lithium battery) · Duracell MN1604 (Alkaline battery) · Gold Peak 1604P & Gold Peak 1604A (Alkaline battery), · Gold Peak 1604S (Carbon Zinc battery) · Golden Power G6F22 (Carbon Zinc battery) · Golden Power GL6F22A (Alkaline battery) · Eveready 522 (Alkaline battery) · Eveready 216 (Carbon Zinc battery) · Eveready 1222 (Carbon Zinc battery)	1050b/02
SK50	Battery Operated Domestic Smoke Alarm Notes: 1. This smoke alarm uses a replaceable 9V battery 2. Battery types approved with this smoke alarm: · Pairdeer 6F22 (Carbon Zinc battery) · Pairdeer 6LR61 (Alkaline battery) · Pairdeer CR-V9 (Lithium battery) · Duracell MN1604 (Alkaline battery) · Gold Peak 1604P & Gold Peak 1604A (Alkaline battery), · Gold Peak 1604S (Carbon Zinc battery) · Golden Power G6F22 (Carbon Zinc battery) · Golden Power GL6F22A (Alkaline battery) · Eveready 522 (Alkaline battery) · Eveready 216 (Carbon Zinc battery) · Eveready 1222 (Carbon Zinc battery)	1050b/03

Ancillary

Mounting Plate

Sentura Group Ltd. (including Fire Depot and Firechief Global)

Sentura House, 3 Lands End Way, Oakham, Rutland, LE15 6RB, United Kingdom
Tel: +44 (0)330 999 22 33
E-mail: sales@firedepot.co.uk • Website: www.firedepot.co.uk

Certificate No: 1471a-(cl-3) to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
FBSD1	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 - 9V (Alkaline) Energizer Holdings (f). MN1604 - 9V (Alkaline) Duracell Incorporation (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/02
FBSD10	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co.Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/05

Shanghai Huiying Industry Co Ltd

Room 1313, Tower A, 1088 New Jinqiao Road, 201206, Shanghai, China
Tel: +86 21 61681700
E-mail: sales@pike-fire.com • Website: www.pike-fire.com

Certificate No: 1275a-(cl-1) to EN 14604:2005/AC:2008

Smoke Alarm

Product Name	Description	LPCB Ref. No
DT-122LA	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/22

Bases:

502003 Mounting Plate

Shenzhen Heiman Technology Co Ltd

No 84 Fuqian Road, Yuexingwei Community, Guanlan, Longhua New District, Shenzhen, 518110, China
Tel: +86 75584193930 x8018
E-mail: office@heiman.com.cn

Certificate No: 1138b to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
HM-625PHS	Ten Year Battery Operated Photoelectric Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery. 2. The only battery type approved with this domestic smoke alarm is - CR17335 CR123A, 3V DC battery manufactured by HCB Battery Co Ltd	1138b/01
HM-626PHS	Ten Year Battery Operated Photoelectric Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery. 2. The only battery type approved with this domestic smoke alarm is - CR17335 CR123A, 3V DC battery manufactured by HCB Battery Co Ltd	1138b/02

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong, 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1463a-(cl-3) to EN 14604:2005/AC:2008

Product Name	Description	LPCB Ref. No
EK3060	9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base) Notes: 1)This smoke alarm uses replaceable DC 9V Batteries: a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G Golden Power: G6F22 & G6F22M b) Alkaline Batteries by; Gold Peak:GN1604A IKEA 6LR61	1463a/02

Standard Base

Siterwell Electronics CO., Limited

No 666 Qingfeng Road, Jiangbei District, Ningbo, Zhejiang, 315034, China
Tel: +31 657615907
E-mail: certificate001@china-siter.com • Website: www.china-siter.com

Certificate No: 1044a to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
GS506	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) 1. Battery types approved with this domestic smoke alarm - Raymax: 6LR61 - Duracell: 6LR61 or MN1604 - Golite: G6F22 or 1604D - Forte: ER9V - Gold Peak: GP1604S - Golden Power: G6F22A or G6F22M or S006P	1044a/02

	- Lonlife: 6F22	
GS503	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Note: 1. Battery types approved with this domestic smoke alarm - Raymax: 6LR61 - Duracell: 6LR61 or MN1604 - Golite: G6F22 or 1604D - Forte: ER9V - Gold Peak: GP1604S - Golden Power: G6F22A or G6F22M or S006P - Lonlife: 6F22	1044a/03

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1275a-(cl-2) to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
VG-6622	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/22

Bases

502003 Mounting Plate

Wizmart Technology Inc.

Building B, No 88, Changyang Road, Jiangbei Investment Pioneering Park, Ningbo, Zhejiang, 315033, China
Tel: +86-574-55003366
E-mail: rock@wizmart.cn • Website: http://wizmart.biz/

Certificate No: 1163d to BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Product Name	Description	LPCB Ref. No
NB840-H	AC-DC Domestic Heat Alarm Notes: 1. Class A2 approved only 2. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A	1163d/01

- PAIRDEER 6F22

- PAIRDEER 6LR61

Certificate No: 1163e to EN 14604:2005/AC:2008

Combined Smoke and Carbon Monoxide alarms

Product Name	Description	LPCB Ref. No
NB840-S	AC-DC Domestic Smoke Alarm	1163e/01
	Note:	
	1. Battery types approved with this domestic smoke alarm:	
	- EVE CR9V-P	
	- GP 1604S	
	- GP GN1604A	
	- PAIRDEER 6F22	
	- PAIRDEER 6LR61	

Certificate No: 1163f to EN 14604:2005/AC:2008 & BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Product Name	Description	LPCB Ref. No
NB840-SH	AC-DC Domestic Multi Alarm	1163f/01
	Notes:	
	1. Class A2 Approved Only	
	2. Battery types approved with this domestic multi alarm:	
	- EVE CR9V-P	
	- GP 1604S	
	- GP GN1604A	
	- PAIRDEER 6F22	
	- PAIRDEER 6LR61	

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea, SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330t to BS 5446-2:2003

Heat Alarms

Product Name	Description	LPCB Ref. No
ZT-MH	Heat Alarm Device	330t/01
	Notes:	
	1. Class A2 approved only	
	2. Battery types approved with this domestic heat alarm:	
	- EVE CR9V-P	
	- GP 1604S	
	- GP GN1604A	
	- PAIRDEER 6F22	

- PAIRDEER 6LR61

Certificate No: 330u to EN 14604:2005/AC:2008

Smoke Alarms

Product Name	Description	LPCB Ref. No
ZT-MS	Smoke Alarm Device	330u/01
	Note: 1. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	

Certificate No: 330v to EN 14604:2005/AC:2008 & BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Product Name	Description	LPCB Ref. No
ZT-MSH	Smoke and Heat Alarm Device	330v/01
	Notes: 1. Class A2 Approved Only 2. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	

A fire detection and fire alarm system is typically made up of a number of inter-linked components including detectors, manual call points, and alarm sounders connected to control and indicating equipment by means of one or more transmission paths. All system components, including the control and indicating equipment are also connected to a power supply directly or indirectly.

A fire detection and alarm system may be linked to other systems such as fire protection, or building management systems. These other systems are not considered as part of the fire detection and alarm systems.

The fire detection and alarm systems may be networked together.

Each of the components that constitute the fire detection and alarm system may be individually tested and approved against their appropriate standard to demonstrate their own performance and reliability but in order to ensure their compatibility and performance together within the system, certain system tests and requirements must be fulfilled.

The system standard specifies the requirements for compatibility and connectability assessment of system components that either comply with the requirements of EN 54 and/or with a manufacturers specification. The standard also includes requirements for the integrity of the fire detection and fire alarm system when connected to other systems.

This section lists approved fire detection and alarm systems suitable for use in buildings for the protection of people and property. The system requirements ensure the compatibility of the different components of the system work reliably together. Each component of the fire detection and alarm systems listed in this section are approved to the applicable product standard and are listed in Sections 3, 4.1, 5, 6, and 7. The approval process for the system is outlined in scheme document SD040.

Systems listed in this section have been approved to LPS 1054 *Requirements for the evaluation of component compatibility for fire alarm systems*

This standard was designed for the UK market and applies to systems incorporating control and indicating equipment and power supply equipment complying with EN 54-2 *Fire detection and fire alarm systems - Control and indicating equipment* and EN 54-4 *Fire detection and fire alarm systems - Power supply equipment* respectively.

Networked systems are evaluated by ensuring that each control panel connected to the network can operate as a stand alone unit, in the event of failure of the network connections, and that failure of a control panel will not affect other control panels on the network.

LPCB is now accepting products for approval to EN 54-13 *Compatibility assessment for system components* which is applicable to the EU market and to LPS 1653 *Requirement for Network fire detection and alarm systems.*

Note: Since LPCB uses national and international standards for the listing of products, in some instances, the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Hochiki Corporation

10-43, Kamiosaki 2 Chrome, Shinagawa-ku, Tokyo, 141-8660, Japan
Tel: (+81) 3 5488 8685
E-mail: info@hochiki.co.jp • Website: http://www.hochiki.co.jp

Certificate No: 360c-(cl-2) to EN 54-13:2005

Product Name	Description	LPCB Ref. No
Hochiki Latitude Fire Detection and Alarm System	**The Hochiki Latitude Fire Detection and Alarm System comprises of the following:** **Control and Indicating Equipment** Hochiki Latitude 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol) Hochiki Latitude 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol) **The Hochiki Latitude CIE may be connected to the following equipment and devices:** **Commercial Detectors (Hochiki Protocol)** ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour) ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	360c/01

ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)

ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)

ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)

ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colur)

ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)

ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)

ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)

ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)

ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)

ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)

CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)

CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter

CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter

CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)

CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)

CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)

CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)

CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)

CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)

CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)

CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)

CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)

CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)

CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)

CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)

CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)

CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)

CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)

CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)

CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)

CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)

CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)

CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)

CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)

CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)

CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)

CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)

CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)

YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)

YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)

YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)

YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)

YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)

YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)

YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)

YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)

YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)

CWST-RW-S5 Conventional Beacon

CWST-RW-W5 Conventional Beacon

CWST-RR-S5 Conventional Beacon

CWST-WW-S5 Conventional Beacon

CWST-WW-W5 Conventional Beacon

CWST-WR-S5 Conventional Beacon

CWST-WR-W5 Conventional Beacon

Line Units (Hochiki Protocol)

CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)

CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)

CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module

CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)

CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module

CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator

CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator

CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator

CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)

CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator

CHQ-POM Intelligent Analogue Addressable Powered Output Module

CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module

CHQ-SIM Intelligent Analogue Addressable Single Input Module

CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module

CHQ-SOM Intelligent Analogue Addressable Single Output Module

CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module

CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)

CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point

SCP-DPS Intelligent Analogue Addressable Type A Manual Call point

HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Short Circuit Isolating Bases

YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)

YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)

YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)

YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

Notes:

1) For further information on each individual product including approved sensitivities, heat classification etc., refer to model reference number(s) in the appropriate section of the RedBook or on www.redbooklive.com <http://www.redbooklive.com>.

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.

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Certificate No: 360c-(cl-1) to EN 54-13:2005

Product Name	Description	LPCB Ref. No
HFP Latitude Fire Detection and Alarm System	**The HFP Latitude Fire Detection and Alarm System comprises of the following:**	360c/01
	Control and Indicating Equipment	
	HFP Latitude 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)	
	HFP Latitude 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)	
	The HFP Latitude CIE may be connected to the following equipment and devices:	
	Commercial Detectors (Hochiki Protocol)	
	ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour)	
	ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	
	ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	
	ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)	
	ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)	
	ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)	
	ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	
	ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)	
	ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)	
	ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	
	ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	
	ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)	
	ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)	
	ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colur)	
	ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)	
	ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)	
	ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)	
	ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)	

ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)

ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)

ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)

ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)

CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)

CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter

CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter

CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)

CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)

CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)

CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)

CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)

CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)

CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)

CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)

CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)

CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)

CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)

CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)

CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)

CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)

CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)

CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)

CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)

CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)

CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)

CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)

CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)

CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)

CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)

CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)

CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)

YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)

YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)

YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)

YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)

YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)

YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)

YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)

YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)

YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)

CWST-RW-S5 Conventional Beacon

CWST-RW-W5 Conventional Beacon

CWST-RR-S5 Conventional Beacon

CWST-WW-S5 Conventional Beacon

CWST-WW-W5 Conventional Beacon

CWST-WR-S5 Conventional Beacon

CWST-WR-W5 Conventional Beacon

Line Units (Hochiki Protocol)

CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)

CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)

CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module

CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)

CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module

CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator

CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator

CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator

CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)

CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator

CHQ-POM Intelligent Analogue Addressable Powered Output Module

CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module

CHQ-SIM Intelligent Analogue Addressable Single Input Module

CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module

CHQ-SOM Intelligent Analogue Addressable Single Output Module

CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module

CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)

CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point

SCP-DPS Intelligent Analogue Addressable Type A Manual Call point

HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Short Circuit Isolating Bases

YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)

YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)

YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)

YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

Notes:

1) For further information on each individual product including approved sensitivities, heat classification etc., refer to model reference number(s) in the appropriate section of the RedBook or on www.redbooklive.com <http://www.redbooklive.com>.

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.

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Certificate No: 991m to EN 54-13:2005

Product Name	Description	LPCB Ref. No
PREVIDIA216 Fire Detection and Alarm System	**The PREVIDIA216 Fire Detection and Alarm System comprises of the following:** **Control and Indicating Equipment** PREVIDIA216 2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d)	991m/01

PREVIDIA216R 2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d) - Red

The PREVIDIA216 CIE may be connected to the following equipment and devices:

Commercial Detectors

ED100 Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator

ED200 Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator

ED300 Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator

Manual Call Points

EC0020 Addressable Type A Indoor Resettable Manual Call Point with Short Circuit Isolator

Line Units

EM312SR Intelligent Analogue Addressable Mini Input/Output Module with Short Circuit Isolator

EU311 Intelligent Analogue Addressable Micro Input/Output Module with Short Circuit Isolator

EM344S Intelligent Analogue Addressable 4 Input / 4 Supervised Output Module with Short Circuit Isolator

EM344R Intelligent Analogue Addressable 4 Input / 4 Relay Output Module with Short Circuit Isolator

EM340 Intelligent Analogue Addressable 4 Input Module with Short Circuit Isolator

EM304S Intelligent Analogue Addressable Output Module with Short Circuit Isolator

EM304R Intelligent Analogue Addressable 4 Relay Output Module with Short Circuit Isolator

Notes:

1) For further information on each individual product including approved sensitivities, heat classification etc., refer to model reference number(s) in the appropriate section of the RedBook or on www.redbooklive.com <http://www.redbooklive.com>.

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref DCMIINIEPRAEMAXEN5413

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Certificate No: 360c to EN 54-13:2005

Fire Detection and Alarm Systems

Product Name	Description	LPCB Ref. No
Taktis Fire Detection and Alarm System	**The Taktis Fire Detection and Alarm System comprises of the following:** **Control and Indicating Equipment** Taktis 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki and Apollo Protocols) Taktis 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki and Apollo Protocols) **The Taktis CIE may be connected to the following equipment and devices:** Commercial Detectors (Hochiki Protocol) ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour) ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit	360c/01

Isolator (White Colour)

ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)

ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)

ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)

ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colur)

ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)

ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)

ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)

ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)

ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)

ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)

ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)

ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Commercial Detectors (Apollo Protocol)

58000-400 Discovery Heat Detector

58000-700 Discovery Multi-sensor Detector

55000-600 XP95 Optical Smoke Detector

55000-620 XP95 Optical Smoke Detector

55000-401 XP95 CS Heat Detector

55000-400 XP95 A2S Heat Detector

58000-600 Discovery Optical Smoke Detector

55000-420 XP95 Heat Detector

55000-660 XP95 Optical Smoke Detector (Black)

55000-885 XP95 Multi-sensor Detector

55000-500 XP95 Ionisation smoke Detector

55000-520 XP95 Ionisation smoke Detector

58000-500 Discovery Ionisation Smoke Detector

SA5100-600 Soteria Optical sensor isolated

SA5100-700 Soteria Multi-sensor isolated

SA5100-400 Soteria Heat sensor isolated

SA5000-600 Soteria Optical sensor non-isolated

SA5000-700 Soteria Multi-sensor non-isolated

SA5000-400 Soteria Heat sensor non-isolated

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)

CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)

CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter

CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter

CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)

CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)

CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)

CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)

CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)

CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)

CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)

CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)

CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)

CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)

CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)

CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)

CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)

CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)

CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)

CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)

CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)

CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)

CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)

CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)

CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)

CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)

CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)

CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)

CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)

YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)

YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)

YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)

YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)

YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)

YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)

YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)

YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)

YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)

CWST-RW-S5 Conventional Beacon

CWST-RW-W5 Conventional Beacon

CWST-RR-S5 Conventional Beacon

CWST-WW-S5 Conventional Beacon

CWST-WW-W5 Conventional Beacon

CWST-WR-S5 Conventional Beacon

CWST-WR-W5 Conventional Beacon

Alarm Warning Devices (Apollo Protocol)

45681-700 Discovery Sounder VAD Base with isolator

55000-006 XP95 Open -Area Sounder Visual indicator (WHITE)

58000-007 Discovery Open-Area Sounder Visual indicator (WHITE)

55000-005 XP95 Open-Area Sounder Visual indicator (RED)

58000-005 Discovery Open -Area Sounder Visual indicator (RED)

55000-002 XP95 Intelligent Open-Area Sounder W (WHITE)

55000-001 XP95 Intelligent Open-Area Sounder R (RED)

55000-741 Loop Powered Type A VAD 6m Red

55000-744 Loop Powered Type A VAD 6m White

55000-742 Loop Powered Type A VAD 8.5m Red

55000-745 Loop Powered Type A VAD 8.5m White

55000-743 Loop Powered Type A VAD 15m White

55000-740 Loop Powered Type A VAD 15m Red

Line Units (Hochiki Protocol)

CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)

CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator

CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator

CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator

CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)

CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module

CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)

CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module

CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator

CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)

CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator

CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator

CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)

CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator

CHQ-POM Intelligent Analogue Addressable Powered Output Module

CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module

CHQ-SIM Intelligent Analogue Addressable Single Input Module

CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module

CHQ-SOM Intelligent Analogue Addressable Single Output Module

CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module

CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)

CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Line Units (Apollo Protocol)

SA4700-102 Soteria Input/Output Unit

SA4700-100 Soteria Switch Monitor

SA4700-103 Soteria Mains Switching Input/Output Unit

SA4700-104 Soteria Twin Input/Output Unit

SA6700-100 Soteria Twin Switch Monitor Plus

SA4700-302 Soteria DIN-Rail Input/Output Unit

SA4700-300 Soteria DIN-Rail Switch Monitor

SA4700-403 Soteria DIN-Rail Mains Switching Input/Output Unit

55000-760 Mini Switch Monitor

55000-797 DIN- RAIL Mains Input/Output Unit

55000-812 DIN-RAIL Zone Monitor Unit

55000-182 DIN-RAIL Sounder Controller (5 Ampreres)

55000-847 Input/Output Unit with Isolator

55000-841 Switch Monitor Plus with Isolator

55000-845 XP95 Zone Monitor with isolator

55000-852 XP95 Sounder Control Unit with isolator

FL6100-600 Soteria Dimension

FL5100-600 Soteria Dimension Specialist

55000-855APO XP95 Analogue Addressable DIN-rail Protocol Translator - single channel

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit

Isolator (SR Mounting Box)

SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point

SCP-DPS Intelligent Analogue Addressable Type A Manual Call point

HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Manual Call Points (Apollo Protocol)

SA5900-908 Intelligent Manual Call Point

SA5900-928MAR Intelligent Marine Manual Call Point

58100-950 Weatherproof Manual Call Point (Red)

58100-910 Discovery Manual Call Point (Red)

55100-905 XP95 Manual Call Point

Short Circuit Isolating Bases

YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)

YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)

YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)

YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

Notes:

1) For further information on each individual product including approved sensitivities, heat classification etc., refer to model reference number(s) in the appropriate section of the RedBook or on www.redbooklive.com <http://www.redbooklive.com>.

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document refMAN-1401

Siemens Switzerland Ltd

Theilerstrasse 1a, Zug, CH-6300 , Switzerland
Website: www.siemens.com

Certificate No: 126bs to

Fire Detection and Alarm Systems

Product Name	Description	LPCB Ref. No
FC121-ZA / FC122-ZA / FC123-ZA / FC124-ZA	Control and indicating equipment	126bs/01
	Two zone conventional control and indicating equipment	
	Four zone conventional control and indicating equipment	
	Eight zone conventional control and indicating equipment	
	Twelve zone conventional control and indicating equipment	
	Power Supply	
	FP2015-A1 CIE internal power supply	
	Output Device	
	FCA1209-Z1 Output Module	
	Input / Output Device	
	DC1192 Input/output module with short circuit isolator	
	Commercial Detectors	
	FDOOT241-9 Analogue addressable multisensor detector with short circuit isolator	
	FDOOT241-A9 Multisensor detector with short circuit isolator	

FDL241-9 Analogue addressable beam detector with short circuit isolator

OH320C Conventional photoelectric smoke detector with thermal enhancement

OOH740 Analogue addressable multisensor detector with short circuit isolator

DO1101A-Ex Intrinsically safe conventional photoelectric smoke detector

DT1101A Conventional class A1R heat detector

DT1101A-Ex Conventional intrinsically safe class A1R heat detector

DT1102A Conventional class B heat detector

DT1102A-Ex Conventional intrinsically safe class B heat detector

DO1101A Conventional photoelectric smoke detector

HI320C Conventional class A1R heat detector

HI322C Conventional class A2 heat detector

OP320C Conventional photoelectric smoke detector

Flame Detectors

FDF221-9 Analogue addressable infra-red flame detector with short circuit isolator

FDF241-9 Analogue addressable infra-red flame detector with short circuit isolator

DF1191 Analogue addressable infra-red flame detector with short circuit isolator

DF1192 Analogue Addressable Infra-Red Flame Detector

Manual Call Points

DM1101 Indoor manual call point, flush mounted

DM1104 Conventional indoor and outdoor manual call point

MT320C Conventional indoor and outdoor manual call point

FDM1101-RG Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element

FDM1101-RP Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element

FDM1101A-RG Conventional Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element

FDM1101A-RP Conventional Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element

FDM1101-RG(F) Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element

FDM1101-RP(F) Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element; French labelling on Resettable Plastic Element.

Alarm Warning Devices

FDSB292 Analogue conventional (collective) sounder base

ROLP Roshni Conventional Type A/B LP Sounder

General note:

For further information on each individual product including approved sensitivities, heat classification, sounder tones etc, refer to model reference number(s) in the appropriate section of the Red Book or on www.redbooklive.com

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Certificate No: 126bu to EN 54-13:2005

Fire Detection and Alarm Systems

Product Name	Description	LPCB Ref. No
FC360	Fire Detection System	126bu/01
	Comprising the following fire detection and fire alarm system products:	
	Control and Indicating Equipment	

FC361-ZZ Analogue Addressable Control and Indicating Equipment

FC361-YZ Analogue Addressable Control and Indicating Equipment

FC361-ZA Analogue Addressable Control and Indicating Equipment

FC361-YA Analogue Addressable Control and Indicating Equipment

Flame Detectors

FDF241-9 Analogue Addressable Infra-Red Flame Detector with Short Circuit Isolator

Beam Detectors

FDL241-9 Analogue Addressable Beam Detector with Short Circuit Isolator

Heat Detectors

HI722 Analogue Addressable Class A2S Heat Detector with Short Circuit Isolator

HI720 Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator

Smoke Detectors

OH720 Analogue Addressable Multi Sensor Smoke Detector

OOH740 Analogue Addressable Multi Sensor Detector with Short Circuit Isolator

OP720 Analogue Addressable Smoke Detector With Short Circuit Isolator

OOHC740 Analogue Addressable Multi Sensor Detector with Short Circuit Isolator

Manual Call Points

FDM221 Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator

FDM223 Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator

FDM224 Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator

FDM225-RG Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Glass Element and incorporating a Short Circuit Isolator

FDM225-RP Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator

FDM226-RG Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Glass Element and incorporating a Short Circuit Isolator

FDM226-RP Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator

FDM231 Addressable Indoor Manual Call Point with Short Circuit Isolator

Line Units

FDCI221 Analogue Addressable Input Module

FDCI222 Analogue Addressable Input Module With Short Circuit Isolator

FDCIO221 Analogue Addressable Input/Output Module

FDCIO222 Analogue Addressable Input/Output Module With Short Circuit Isolator

FDCL221 Analogue Addressable Line Separator

FDCL221-M Multi Line Separator Module

FT2010 Floor Repeater Terminal

FT2011 Floor Repeater Display

Alarm Warning Devices

FDS221-R/W Analogue Addressable Type B Loop Sounder with Short Circuit Isolator

FDS229-A/R Analogue Addressable Type B Sounder Beacon with Short Circuit Isolator

DBS720 Analogue Addressable Type A Base Sounder

Note:

1. Only one cable type is specified by the manufacturer

2. For further information on each individual product including approved sensitivities, heat classification, sounder tones etc, refer to model reference number(s) in the appropriate section of the Red Book or on www.redbooklive.com

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Certificate No: 681ar-(cl-1) to EN 54-13: 2005
Certificate No: 681av-(cl-1) to EN 54-13: 2015
Certificate No: 681av-(cl-2) to EN 54-13: 2015

Fire Detection and Alarm Systems

Product Name	Description	LPCB Ref. No
FireClass Fire Detection System	**Commercial Detectors** FC460P Digital Addressable Photoelectric Smoke Detector (4B, 4B-I and 5B) FC460PH Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-I and 5B bases) FC460PC Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-I and 5B bases) FC460H Digital Addressable Class P Heat Detector (4B, 4-BI and 5B bases) **Manual Call Points** FC420CP-I Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator FC421CP-I Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator **Line Units** 4B-I Short Circuit Isolator Base FC410QIO Quad Input/Output Module with Short Circuit Isolator FC410QRM Quad Relay Module with Short Circuit Isolator FC410QMO Quad Monitored Output Module with Short Circuit Isolator FC410CIM Contact Input Module FC410DIM Detector Input Module FC410RIM Relay Interface Module FC410MIM Mini Input Module FC410SNM Sounder Notification Module FC410MIO Mini Input/Output Module FC410BDM Beam Detector Interface Module FC410DDM Detector Driver Module **Alarm Warning Devices** FC410LPSY Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator FC410LPAV Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator FC430LPASB Loop Powered Sounder Beacon Base with Short Circuit Isolator FC430LPSB Loop Powered Sounder Base with Short Circuit Isolator FC430SB Analogue Addressable Type A Sounder Base	681ar/01

Visual Alarm Devices

FC410LPBS-R Loop Powered Type A Beacon Sounder with Short Circuit Isolator

FC410LPBS-W Loop Powered Type A Beacon/Sounder with Short Circuit Isolator

FC410LPBS LP Loop Powered Type B Beacon/Sounder with Short Circuit Isolator

FC430LPBSB LP Loop Powered Beacon Sounder Base with Short Circuit Isolator

Control and Indicating Equipment

FC32-1 FireClass (557.200.701) Analogue Addressable Control and Indicating Equipment, 1 Loop, 32 Zone

FC64-2 FireClass (557.200.702) Analogue Addressable Control and Indicating Equipment, 2 Loop, 64 Zone

FC64-4 FireClass (557.200.703) Analogue Addressable Control and Indicating Equipment, 4 Loop, 64 Zone

FC240-2 FireClass (557.200.704) Analogue Addressable Control and Indicating Equipment, 2 Loop, 240 Zone

FC240-4 FireClass (557.200.705) Analogue Addressable Control and Indicating Equipment, 4 Loop, 240 Zone

Bases

4B Universal Mounting Base

4B-I Isolator Base

5B Standard Mounting Base

Certificate No: 681av-(cl-1) to EN 54-13: 2005

Fire Detection and Alarm Systems

Product Name	Description	LPCB Ref. No
Zettler Profile Fire Detection and Alarm System	**The Zettler Profile Fire Detection and Alarm System comprises of the following:** **Zettler Profile Control and Indicating Equipment** Pro16xD with Pro16xBB Pro16xD 4-16 Loops Analogue Addressable Control & Indicating Equipment Pro16xBB 4-16 Loops Analogue Addressable Control & Indicating Equipment (Black Box) Pro32xD with Pro32xBB Pro32xD 4-32 Loops Analogue Addressable Control & Indicating Equipment Pro32xBB 4-32 Loops Analogue Addressable Control & Indicating Equipment (Black Box) **Profile Flexible Control and Indicating Equipment** Pro215S 1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing Pro215D 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing Pro815D 4-8 Loops Analogue Addressable Control & Indicating Equipment Pro885D 4-8 Loops Analogue Addressable Control & Indicating Equipment Pro815D-CH 4-8 Loops Analogue Addressable Control & Indicating Equipment **Profile Lite Control and Indicating Equipment** Pro215S Lite 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Pro415S Lite 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Pro415D Lite 2-4 Loop Analogue Addressable Control and Indicating Equipment, Deep Housing	681av/01

Pro215S Lite Swiss 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing

Pro415S Lite Swiss 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing

The Zettler Profile CIE may be connected to the following Equipment and devices:

Control and Indicating Equipment via MX Network

MX4000 2-8 Loop Analogue Addressable Control and Indicating Equipment

MZX-250 Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone

MZX-251 Analogue Addressable Control and Indicating Equipment 1 Loop, 32 Zone

MZX-252 Analogue Addressable Control and Indicating Equipment 2 Loop, 32 Zone

MZX-253 Analogue Addressable Control and Indicating Equipment 2-4 Loop, 64 Zone

MZX-254 Analogue Addressable Control and Indicating Equipment 2-4 Loop, 240 Zone

Repeaters

P32AR LT AC 32 Zone AC Repeater, Zettler

P32DR LT DC 32 Zone DC Repeater, Zettler

P32AR-CH LT AC 32 Zone AC Repeater, Zettler Swiss

P32DR-CH LT DC 32 Zone DC Repeater, Zettler Swiss

PR8AS Repeater Panel

Commercial Detectors

830P MX Digital Addressable Photoelectric Smoke Detector

840P MX Digital Addressable Photoelectric Smoke Detector

850P MX digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator

830H MX Digital Addressable Class P Heat Detector

840H MX Digital Addressable Class P Heat Detector

850H MX Digital Addressable Class P Heat Detector with Short Circuit Isolator

830PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector

840PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector

850PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator

851PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator [Marine Version]

830PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector

850PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator

835P Photo Detector

835H Heat Detector

835PC 3otec Triple Sensor Detector

835PH Photo Heat Detector

855P Photo Detector with SCI

855H Heat Detector with SCI

855PC 3oTec Triple Sensor Detector with SCI

855PH Photo Heat Detector with SCI

801F MX Addressable Class 2 Flame Detector

801FEX Conventional Class 2 Intrinsically Safe Flame Detector

VESDA VLC-800 High Sensitivity Aspirating Smoke Detector

VESDA VLF-250 High Sensitivity Aspirating Smoke Detector

VESDA VLF-500 High Sensitivity Aspirating Smoke Detector

VESDA VLP High Sensitivity Aspirating Smoke Detector

VESDA VLS High Sensitivity Aspirating Smoke Detector

VESDA Laser Industrial High Sensitivity Aspirating Smoke Detector

Manual Call Points

MCP820 Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

MCP830 Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

Alarm Warning Devices

LPSY865 Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator

LPAV865 Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator

LPBS865 LP Beacon Symphoni Type B Sounder IP65, Red Housing with Short Circuit Isolator

P80AVW Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing

P80AVR Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing

P80AVB Zettler Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing

P81AVB Zettler Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing

P80SB Zettler Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing

P80AIB Zettler Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing

P80SW Zettler Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing

P80SR Zettler Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing

P80AIW Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing

P80AIR Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing

P85SR Zettler Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing

P85AIR Zettler Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing

80DSB Zettler Type A Indoor Detector Base Sounder, White Housing

P85CAV Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing

P80CAVB Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear housing

P85AVR Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing

P82AVB Addressable Type A Indoor Open Class Base Sounder VAD with SCI, White Flash, Clear Housing

Line Units

RIM800 Relay Interface Module

MIM800 Mini Input Module

CIM800 Contact Input Module

MIO800 Small Addressable Multi Input/Output Module

QIO850 Quad Input/Output Module with Short Circuit isolator

QRM850 Quad Relay Module with Short Circuit Isolator

QMO850 Quad Monitored Output Module with Short Circuit Isolator

BDM800 Loop Powered Beam Detector Interface Module

SNM800 Sounder Notification Module

LAV800 Extinguishing Input Module

HVR800 High Voltage Relay Module

Power Supplies

PSU-A17 Addressable 17Ah Power Supply Unit

PSU-A38 Addressable 38Ah Power Supply Unit

Bases

4B-I Short Circuit Isolator Base

802SB Analogue Addressable Type A Sounder Base

Notes:

1) For further information on each individual product including approved sensitivities, heat classification, sounder tones etc., refer to model reference number(s) in the appropriate section of the RedBook or on www.redbooklive.com <<http://www.redbooklive.com>>

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual for profile panels document ref: PROFILE-PRO-SYS-EN54-13.

Certificate No: 681av-(cl-2) to EN 54-13: 2005

Fire Detection and Alarm Systems

Product Name	Description	LPCB Ref. No
FireClass Profile Fire Detection and Alarm System	**The FireClass Fire Detection and Alarm System comprises of the following:** **FireClass Control and Indicating Equipment** FC702S 1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing FC702D 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing FC718D 4-8 Loops Analogue Addressable Control & Indicating Equipment FC708D 4-8 Loops Analogue Addressable Control & Indicating Equipment FC602S 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FC604S 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FC602S Scandinavian 2-4 Loop Analogue Addressable Control and Indicating Equipment, Deep Housing FC604S Scandinavian 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing **Repeaters** FC32AR 32 Zone AC Repeater FC32DR 32 Zone DC Repeater FC8AS Repeater Panel **Commercial Detectors** FC460P MX Digital Addressable Photoelectric Smoke Detector FC460H MX Digital Addressable Class P Heat Detector FC460PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector	681av/01

FC460PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector

VESDA VLC-800 High Sensitivity Aspirating Smoke Detector

VESDA VLF-250 High Sensitivity Aspirating Smoke Detector

VESDA VLF-500 High Sensitivity Aspirating Smoke Detector

VESDA VLP High Sensitivity Aspirating Smoke Detector

VESDA VLS High Sensitivity Aspirating Smoke Detector

VESDA Laser Industrial High Sensitivity Aspirating Smoke Detector

Manual Call Points

FC420CP-I Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

FC421CP-I Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

Alarm Warning Devices

FC410LPSY Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator

FC410LPSYR Symphoni MX Addressable Loop Powered Type A Sounder (Red) with Short Circuit Isolator

FC410LPSYW Symphoni MX Addressable Loop Powered Type A Sounder (White) with Short Circuit Isolator

FC410LPAV Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator

FC410LPAVR Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator

FC410LPAVW Symphoni MX Addressable Loop Powered Type B Sounder Beacon (White) with Short Circuit Isolator

FC410LPBSR L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - Red Housing

FC410LPBSW L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - White Housing

FC410LPBS-LP Beacon Symphoni Type B Sounder IP65, Red Housing with Short Circuit Isolator

FC430LPBS-LP Loop Powered Beacon Sounder Base with Short Circuit Isolator (Type A Mounting Flange)

FC440AVW FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing

FC440AVR FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing

FC440AVB FireClass Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing

FC441AVB FireClass Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing

FC440SB FireClass Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing

FC440AIB FireClass Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing

FC440SW FireClass Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing

FC440SR FireClass Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing

FC440AIW FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing

FC440AIR FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit

Isolator, Red Housing

FC445SR FireClass Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing

FC445AIR FireClass Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing

FC440DSB FireClass Type A Indoor Detector Base Sounder, White Housing

FC445CAV FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing

FC440CAVB Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear housing

FC445AVR Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing

Line Units

FC410RIM Relay Interface Module

FC410MIM Mini Input Module

FC410CIM Contact Input Module

FC410MIO Small Addressable Multi Input/Output Module

FC410QIO Quad Input/Output Module with Short Circuit isolator

FC410QRM Quad Relay Module with Short Circuit Isolator

FC410QMO Quad Monitored Output Module with Short Circuit Isolator

FC410BDM Loop Powered Beam Detector Interface Module

FC410SNM Sounder Notification Module

Bases

4B-I Short Circuit Isolator Base

FC430SB Analogue Addressable Type A Sounder Base

Notes:

1) For further information on each individual product including approved sensitivities, heat classification, sounder tones etc., refer to model reference number(s) in the appropriate section of the RedBook or on www.redbooklive.com <http://www.redbooklive.com>.

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual for profile panels document ref: FC-FC700-SYS-EN54/13.

FIRE RESISTANT CABLES

Fire resistant cables are designed such that in the event of a fire they maintain circuit integrity.

This section lists fire resistant cables for use in fire safety, fire detection and fire alarm systems and other applications where specifications require cables with specific performance in the event of a fire.

BS 5839-1 ***Fire detection and fire alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance***

BS 5839-1 includes requirements for fire resistant cables for fire detection and alarm systems. It calls for Standard and Enhanced fire resistant cables and defines the requirements for these in Clause 26.2. These cables have to comply with EN 60702-1 (with a polymeric sheath), BS 7629-1 or BS 7846.

Standard fire resisting cables also have to:

a) achieve at least Class PH30 when tested in accordance with EN 50200.

and

b) maintain circuit integrity when exposed to a special flame / mechanical shock / water spray sequence equivalent to achieving a duration of 30 minutes when tested in accordance with EN 50200 Annex E.

Enhanced fire resisting cables also have to:

a) achieve 120 minutes survival when tested in accordance with EN 50200,

and

b) maintain circuit integrity when exposed to a special flame / mechanical shock / water spray sequence equivalent to achieving a duration of 120 minutes when tested in accordance with BS 8434-2.

Only cables complying with these requirements are listed as Standard or Enhanced under BS 5839-1, Clause 26.2.

BS 8519 ***Selection and installation of fire-resistant power and control cable systems for life safety and fire-fighting applications - Code of practice***

BS 8519 gives guidance and recommendations on the selection and installation of power and control cable systems which are required to maintain their circuit integrity for life safety and fire-fighting applications. It also gives specific recommendations for electrical system design for such applications, and recommended limits for survival times.

Category 1: means of escape (30 minutes fire survival time).

- power cables of 20 mm overall diameter and above meeting the 30 minutes survival time when tested in accordance with BS 8491, or
- control cables meeting the PH30 classification when tested in accordance with EN 50200, and the 30 minutes survival time when tested in accordance with Annex E of that standard

Category 2: means of escape (60 minutes fire survival time).

- power cables of 20 mm overall diameter and above meeting the 60 minutes survival time when tested in accordance with BS 8491, or
- control cables meeting the PH60 classification when tested in accordance with EN 50200, and the 120 minutes survival time when tested in accordance with BS 8434-2

Category 3: fire-fighting (120 minutes fire survival time).

- power cables of 20 mm overall diameter and above meeting the 120 minutes survival time when tested in accordance with BS 8491, or
- control cables meeting the PH120 classification when tested in accordance with EN 50200, and the 120 minutes survival time when tested in accordance with BS 8519 Annex B.

Other Standards Used

The other standards and test methods currently used for certification are listed below. This list includes some "withdrawn" standards. Where possible, these will be replaced by the superseding standards when certificates are renewed. However, where withdrawn standards are called up by current standards, certification to the withdrawn standard may need to be maintained until the calling standard is amended to remove the reference:

- BS 6387 *Performance requirements for cables required to maintain circuit integrity under fire conditions*
- BS 7629-1 *Electric cables - Specification for 300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables*
- BS 7846 *Electric cables - Thermosetting insulated, armoured, fire - resistant cables of rated voltage 600/1 000 V, having low emission of smoke and corrosive gases when affected by fire*
- BS 8592 *Electric cables - Thermosetting insulated, non-armoured, fire-resistant, single core non-sheathed cables of rated voltage 450/750 V, having low emission of smoke and corrosive gases when affected by fire*
- BS 8434-2 *Method of test for assessment of the fire integrity of electric cables - Part 2: test for unprotected small cables for use in emergency circuits- EN 50200 with a 930°C flame and with water spray*
- BS 8491 *Method for assessment of fire integrity of large diameter power cables for use as components for*

smoke and heat control systems and other certain active fire safety systems
- EN 50200 *Method of test for resistance to fire of unprotected small cables for use in emergency circuits*
- EN / IEC 60332 *Tests on electric and optical fibre cables under fire conditions*
- EN 60702-1 *Mineral insulated cables and their terminations with rated voltage not exceeding 750V - Part 1: Cables*
- EN / IEC 61034-2 *Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2)*
- IEC 60331-1 *Tests for electric cables under fire conditions - Circuit integrity - Part 1: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter exceeding 20mm.*
- IEC 60331-2 *Tests for electric cables under fire conditions - Circuit integrity - Part 2: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter not exceeding 20mm.*
- IEC 60331-21 *Tests for electric cables under fire conditions - Circuit integrity - Part 21 Procedure and requirements - Cables of rated voltage up to and including 0,6/1,0kV*
- EN / IEC 60754-1 *Tests on gases evolved during combustion of materials from cables - Part 1: Determination of the amount of halogen acid gas*
- EN / IEC 60754-2 *Tests on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity*

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Certificate No: 1827a to EN 60332-3-25:2009 , BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (CWZ) , EN 60332-3-24:2009 , EN 50200:2015 (Class PH120) , BS 5839-1:2013 (Clause 26.2d Standard), EN 50200:2015 Annex E (30 mins)

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 3	BS 6387	EN 50200	EN 50200 See note 4	BS 5839-1 See note 5	LPCB Ref. No.
ZEROBURN	4.0(2)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	1827a/01
ZEROBURN	1.0(1)	2	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	1827a/01
ZEROBURN	2.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	1827a/01
ZEROBURN	1.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	1827a/01

Uo/U 300/500V
Notes:
Solid conductor only.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015, the ZEROBURN cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, achieved less than 0.5%HCl for the outer covering, binder tape and insulation when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.
The ZEROBURN cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 1827b/01 to BS 7629-1:2015 (ENHANCED 120), BS 6387:2013 (CWZ) , EN 50200:2015 (Class PH120) , BS 8434-2:2003+A2:2009, BS 5839-1:2013 (clause 26.2e Enhanced), EN 60332-3-24:2009 , EN 60332-3-25:2009

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 2	BS 6387	EN 50200	BS 8434-2 See note 3	BS 5839-1 See note 4	LPCB Ref. No.
ZEROBURN PLUS	1.0	2	ENHANCED 120	C, W, Z	Class PH120	120 minutes	Clause 26.2e	1827b/01
ZEROBURN PLUS	1.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120 minutes	Clause 26.2e	1827b/01
ZEROBURN PLUS	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120 minutes	Clause 26.2e	1827b/01
ZEROBURN PLUS	4.0	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120 minutes	Clause 26.2e	1827b/01

Uo/U 300/500V
Notes:
Solid and stranded conductor only.
In meeting the requirements of BS 7629-1:2015, the ZEROBURN PLUS cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, achieved less than 0.5%HCl for the outer covering, binder tape and insulation when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60 minutes for the fire and mechanical shock phase and an additional 60 minutes for the fire, mechanical shock and water phase.
The ZEROBURN PLUS cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 120 minutes duration when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

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Certificate No: 221e to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH 120) BS 5839-1:2013 (Clause 26.2d Standard)

Firetec Standard Multicore LSZH

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 (Clause 26.2)	LPCB Ref. No.
Firetec Standard Multicore LSZH	1.5	2, 3 & 4	STANDARD 60	C ,W, Z	Class PH120	30 minutes	Standard	221e/01
Firetec Standard Multicore LSZH	2.5	2, 3 & 4	STANDARD 60	C ,W, Z	Class PH120	30 minutes	Standard	221e/01
Firetec Standard Multicore LSZH	4.0	2, 3 & 4	STANDARD 60	C ,W, Z	Class PH120	30 minutes	Standard	221e/01

Certificate No: 221f to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 (Category 3)

Firetec Enhanced Multicore LSZH

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 8519	BS 8434-2	BS 5839-1	LPCB Ref. No.
Firetec Enhanced Multicore LSZH	1.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	Cat 3	120 min	Enhanced 26.2e	221f/01
Firetec Enhanced Multicore LSZH	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	Cat 3	120 min	Enhanced 26.2e	221f/01
Firetec Enhanced Multicore LSZH	4.0	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	Cat 3	120 min	Enhanced 26.2e	221f/01

Certificate No: 221k to BS 7846:2015 (Category F2)

Firetec Power

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
Firetec Power	1.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	221k/01
Firetec Power	2.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	221k/01
Firetec Power	4.0	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	221k/01
Firetec Power	6.0	2, 3 & 4	F2	221k/01
Firetec Power	10	2, 3 & 4	F2	221k/01
Firetec Power	16	2, 3 & 4	F2	221k/01
Firetec Power	25	2, 3 & 4	F2	221k/01
Firetec Power	35	2, 3 & 4	F2	221k/01
Firetec Power	50	2, 3 & 4	F2	221k/01
Firetec Power	70	2, 3 & 4	F2	221k/01
Firetec Power	95	2, 3 & 4	F2	221k/01
Firetec Power	120	2, 3 & 4	F2	221k/01
Firetec Power	150	2, 3 & 4	F2	221k/01
Firetec Power	185	2, 3 & 4	F2	221k/01
Firetec Power	240	2, 3 & 4	F2	221k/01
Firetec Power	300	2, 3 & 4	F2	221k/01
Firetec Power	400	2, 3 & 4	F2	221k/01

Certificate No: 221r to BS 7846:2015 (Category F2 & F120) BS 8519:2010 (Category 3)

Firetec Impact Power

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846-1	BS 8519 Clause 11	LPCB Ref. No.
Firetec Impact Power	4.0	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	6.0	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	10	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	16	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	25	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	35	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	50	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	70	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	95	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	120	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	150	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	185	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	240	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	300	3 & 4	F2 & F120	Category 3	221r/01
Firetec Impact Power	400	3 & 4	F2 & F120	Category 3	221r/01

Certificate No: 221s to EN 60702-1:2002+A1:2015 BS 6387:2013 (Category CWZ) IEC 60754-1:2014 EN 50200:2015 (Class PH 120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8491: 2008 (120 minutes) BS 8519: 2010 (Category 3)

AEI Mineral Insulated Cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1 (outer covering)	BS 8519	LPCB Ref. No.
AEI Mineral Insulated Cable (Heavy Duty)	1.5	One, 2, 3, 4, 7, 12, & 19	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	1.5-2.5	2, 3, 4, 7, 12, & 19	-	-	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	2.5	One, 2, 3, 4, 7 & 12	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	4.0	One, 2, 3 & 4	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	6.0	One, 2, 3 & 4	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	10	One, 2, 3 & 4	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	16	One, 2, 3 & 4	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	25	One, 2, 3 & 4	CWZ	<0.5% HCl	-	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	4.0 - 25	2, 3 & 4	-	-	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	35	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	50	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	70	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	95	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	120	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	150	One	CWZ	<0.5%HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	185	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	240	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	300	One	CWZ	<0.5% HCl	Cat 3	221s/01
AEI Mineral Insulated Cable (Heavy Duty)	400	One	CWZ	<0.5% HCl	Cat 3	221s/01

Certificate No: 221s to EN 60702-1:2002+A1:2015 BS 6387:2013 (Category CWZ) IEC 60754-1:2014 EN 50200:2015 (Class PH 120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8491: 2008 (120 minutes) BS 8519: 2010 (Category 3)

AEI Mineral Insulated Cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (clause 26.2)	LPCB Ref. No.
AEI Mineral Insulated Cable (Light Duty)	1.0	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	221s/01
AEI Mineral Insulated Cable (Light Duty)	1.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	221s/01
AEI Mineral Insulated Cable (Light Duty)	2.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	221s/01
AEI Mineral Insulated Cable (Light Duty)	4.0	2	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	221s/01

Certificate No: 221v to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-24:2009 BS 8434-2:2003+A2:2009 (120 minutes) EN 50200:2015 (Class PH 120)

Firetec Single Core LSZH

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	BS 8434-2	EN 50200	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
Firetec Single Core LSZH	1.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	221v/01

Firetec Single Core LSZH	2.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	221v/01
Firetec Single Core LSZH	4.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	221v/01
Firetec Single Core LSZH	6.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	221v/01
Firetec Single Core LSZH	10	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	16	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	25	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	35	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	50	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	70	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	95	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	120	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	150	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	185	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	240	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	300	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	400	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	500	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	630	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	800	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01
Firetec Single Core LSZH	1000	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	221v/01

Certificate No: 221w to BS 8592:2016 BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 IEC 60331-21:1999 BS 8434-2:2003+A2:2009 (120 minutes) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 minutes) IEC 60332-3-24:2009 EN 60754-1:2014 IEC 60331-3:2009 EN 60332-1-2:2004+A

FIRETEC SINGLE BS 8592

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8592	BS 6387	BS 8434-2	EN 50200	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
FIRETEC SINGLE BS 8592	1.5	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	221w/01
FIRETEC SINGLE BS 8592	2.5	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	221w/01
FIRETEC SINGLE BS 8592	4.0	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	221w/01
FIRETEC SINGLE BS 8592	6.0	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	221w/01
FIRETEC SINGLE BS 8592	10	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	221w/01
FIRETEC SINGLE BS 8592	16	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	221w/01
FIRETEC SINGLE BS 8592	25	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	221w/01
FIRETEC SINGLE BS 8592	35	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	221w/01
FIRETEC SINGLE BS 8592	50	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	221w/01
FIRETEC SINGLE BS 8592	70	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	221w/01

Certificate No: 221x to BS 6387:2013 (CWZ) , IEC 60331-21:1999, EN 61034-2:2005+A2:2020, EN 60754-1:2014

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction	BS 6387 See note 2 & 3	EN 60754-1	EN 61034-2	IEC 60331-21 See note 4	LPCB Ref. No.
FIRETEC 300 Single Core	1.5	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	2.5	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01

FIRETEC 300 Single Core	4.0	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	6.0	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	10	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	16	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	95	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	50	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	25	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	35	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	70	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	150	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	120	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	240	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	185	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	500	One	-	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	300	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	400	One	C	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	630	One	-	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	1000	One	-	<0.5% HCl	>60%	(90+15) minutes	221x/01
FIRETEC 300 Single Core	800	One	-	<0.5% HCl	>60%	(90+15) minutes	221x/01

Uo/U 600/1000V
Notes:
Stranded conductor only.
Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit. Either one or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.
The FIRETEC 300 Single core cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C for a duration of (90 + 15) minutes cool down, at a voltage rating of 600V.
Approved Manufacturer

The following company manufacture the listed cable sizes on this certificate.
This company is audited by the LPCB to ensure the product certification requirements are met.

Dubai Cable Company (Private) Limited (LPCB No.782f)
Ducab-M1, Plot No. – 2D12, 3D2, 4D2, 5D2
Sector – M41,
Industrial City of Abu Dhabi-1
Mussafah
Abu Dhabi
United Arab Emirates

Certificate No: 221y to BS 6387:2013 (CWZ) , EN 61034-2:2005+A2:2020, IEC 60331-21:1999, IEC 60754-1:2014, IEC 60332-3-24:2009

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 6387 (see note 3)	IEC 60331-21 (see note 2)	EN 61034-2	EN 60754-1	EC 60332-3-24	LPCB Ref. No.
FIRETEC 300 Multicore	1.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	1.5	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	2.5	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	4.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	6.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	10	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	16	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01

FIRETEC 300 Multicore	25	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	35	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	50	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	70	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	95	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	120	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	150	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	185	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	240	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	300	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01
FIRETEC 300 Multicore	400	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	221y/01

Uo/U 600/1000V
Notes:
1. Stranded conductor only.
2. The FIRETEC 300 Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950ºC, for a duration of 90 plus 15 minutes cool down at a voltage rating of 600/1000V.
3. Cables with an overall diameter of above 20mm were tested according to the additional provisions given in Annex I of the BS 7846:2015

4. Approved Manufacturers

The following companies manufacture the listed cable sizes on this certificate.
These companies are audited by the LPCB to ensure the product certification requirements are met.

Dubai Cable Company (Private) Limited (LPCB No.782n)	Dubai Cable Company (Private) Limited (LPCB No.949c)
Ducab-M1, Plot No. – 2D12, 3D2, 4D2, 5D2	Ducab-M2, Plot No. – J6 14-15-16
Sector – M41, Industrial City of Abu Dhabi-1	Sector – M41, Industrial City of Abu Dhabi- 1
Mussafah	Mussafah
Abu Dhabi	Abu Dhabi
United Arab Emirates	United Arab Emirates
25mm2 – 400mm2 at 2 to 4 cores	1.0mm2 – 16mm2 at 2 to 4 cores

Al Rayan Security & Safety Trading

Al Qusais Industrial Area 4, PO Box 52257, Dubai, United Arab Emirates
Tel: 00971 04 252 5333
E-mail: rayandxb@eim.ae • Website: www.alrayandxb.com

Certificate No: 1736b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2) Note 1	Core Construction	BS 6387	EN 50200	EN 50200	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
SECURE Multicore Cables	1.5	2.3 & 4	C, W, Z	PH120	Annex E	<0.5%	>60%	Complies	1736b/01
SECURE Multicore Cables	2.5	2.3 & 4	C, W, Z	PH120	Annex E	<0.5%	>60%	Complies	1736b/01

Uo/U 300/500V
Notes:
Solid Conductor only.

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1736a to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2) Note 1	Core Construction	BS 6387	EN 50200	EN 50200	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
SECURE Fire Resistant Cables	1.0	2, 3 & 4	C, W, Z	PH30	Annex E	<0.5%	>60%	Complies	1736a/01
SECURE Fire Resistant Cables	1.5	2, 3 & 4	C, W, Z	PH30	Annex E	<0.5%	>60%	Complies	1736a/01
SECURE Fire Resistant Cables	2.5	2, 3 & 4	C, W, Z	PH30	Annex E	<0.5%	>60%	Complies	1736a/01

Uo/U 300/500V
Notes:
Solid Conductor only.

B3 International S.R.L.

Monte Napoleone 8, Milan, 20121, Italy
Tel: +39 02 8732 3325
E-mail: Mathias.Lundh@b3cable.com • Website: www.b3cable.com

Certificate No: 1809a to EN 61034-2:2005+A2:2020, BS 6387:2013 (Category CWZ), EN 60754-2:2014, EN 50200-2015 (Class PH120), EN 50200:2015 Annex E (30mins)

Fire resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
B3 Cables Italy Fire Premium	1.5(1)	2	CWZ	<0.5% HCl	>60%	PH120	30 minutes	1809a/01
B3 Cables Italy Fire Premium	1.5(2)	3, 4	CWZ	<0.5% HCl	>60%	PH120	30 minutes	1809a/01
B3 Cables Italy Fire Premium	2.5(1)	2	CWZ	<0.5% HCl	>60%	PH120	30 minutes	1809a/01

Uo/U 300/500V
Notes:
1. Solid and Stranded conductor.
2. Solid conductor.

Bahra Cables Company

CPC Industrial Park, Bahra, Jeddah 21432, Saudi Arabia
Tel: +966 25911115, (Toll Free) 8001248111
E-mail: fsb@bahra-cables.com • Website: www.bahra-cables.com

Certificate No: 1069a to BS 6387: 2013, IEC 60331-21: 1999, BS EN 50267-2-1: 1999, BS EN 50267-2-3: 1999 & BS EN 61034-2: 2005

FSB Wires

Product Name	Nominal csa of conductor (mm²)	Core construction	BS 6387	BS EN 50267-2-1	BS EN 50267-2-3	BS EN 61034-2	IEC 60331-21	LPCB Ref. No.
FSB Wires	2.5	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	4.0	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	6.0	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	10	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	16	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	25	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	35	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	50	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	70	One(1)	C, W, Z(2, 3)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	95	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	120	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	150	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	185	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	240	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	300	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	400	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01
FSB Wires	500	One(1)	C(2, 4)	<0.5% HCl	Complies	>60%	Complies(5)	1069a/01

Uo/U 450/750V

Notes:

1) Stranded conductor only.

2) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.

3) To satisfy the requirement of BS 6387:2013, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.

4) To satisfy the requirement of BS 6387:2013, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.

5) The FSB Wires cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950ºC for a duration of 180mins, at a voltage rating of 450V.

Certificate No: 1069b to BS 7846:2015 Cat F2

FSB Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
FSB Cable	4.0	2, 3 & 4	F2	1069b/01
FSB Cable	6.0	2, 3 & 4	F2	1069b/01
FSB Cable	10	2, 3 & 4	F2	1069b/01
FSB Cable	16	2, 3 & 4	F2	1069b/01
FSB Cable	25	2, 3 & 4	F2	1069b/01
FSB Cable	35	2, 3 & 4	F2	1069b/01
FSB Cable	50	2, 3 & 4	F2	1069b/01
FSB Cable	70	2, 3 & 4	F2	1069b/01
FSB Cable	95	2, 3 & 4	F2	1069b/01
FSB Cable	120	2, 3 & 4	F2	1069b/01
FSB Cable	150	2, 3 & 4	F2	1069b/01
FSB Cable	185	2, 3 & 4	F2	1069b/01
FSB Cable	240	2, 3 & 4	F2	1069b/01
FSB Cable	300	2, 3 & 4	F2	1069b/01
FSB Cable	400	2, 3 & 4	F2	1069b/01

Certificate No: 1069c to BS 7846: 2015 Category F120 and BS 8519:2010 Category 3

FSB 6000

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8519	LPCB Ref. No.
FSB 6000	4.0	2	See Note 3	Category 3	1069c/01
FSB 6000	4.0	3 & 4	F120	Category 3	1069c/01
FSB 6000	6.0	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	10	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	16	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	25	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	35	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	50	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	70	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	95	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	120	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	150	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	185	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	240	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	300	2, 3 & 4	F120	Category 3	1069c/01
FSB 6000	400	2, 3 & 4	F120	Category 3	1069c/01

Certificate No: 1069d-01 to BS 6387:2013 IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 EN 50267-2-1:1999 EN 50267-2-3:1999 IEC 60332-3-24:2009

FSB 3000 Single core

Product Name	Nominal csaof conductor (mm²)	Core construction	BS 6387	IEC 60331-21	EN 50267-2-1	EN 50267-2-3	IEC 61034-2	EN 60332-2-24	LPCB Ref. No.
FSB 3000 Single core	2.5	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
FSB 3000 Single core	4.0	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
FSB 3000 Single core	6.0	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
FSB 3000 Single core	10	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
FSB 3000 Single core	16	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
FSB 3000 Single core	25	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01

FSB 3000 Single core	35	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
FSB 3000 Single core	50	One	CWZ(2,3 & 4)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	70	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	95	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	120	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	150	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	185	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	240	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	300	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	400	One	CWZ(2 & 3)	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	500	One	-	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01
FSB 3000 Single core	630	One	-	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/01

Uo/U 600/1000V

Notes:

1. Stranded conductor only.

2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.

3. To satisfy the requirement of BS 6387, testing for Category C was conducted using a 38mm stainless steel conduit as the other metallic element.

4. To satisfy the requirement of BS 6387, testing for Categories W and Z was conducted using a 20mm stainless steel conduit as the other metallic element.

5. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the FSB 3000 Single Core cables listed also met the requirements of EN 50267-2-2:1999.

6. The FSB 3000 Single Core cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°?C for a duration of 180mins at a voltage rating of 600V.

7. The FSB 3000 Single Core cables listed also met the requirements of EN 60332-1-2:2004

Certificate No: 1069d-02 to BS 6387:2013 IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 EN 50267-2-1:1999 EN 50267-2-3:1999 IEC 60332-3-24:2009

FSB 3000 Multicore

Product Name	Nominal csaof conductor (mm²)	Core Construction	BS 6387	IEC 60331-21	EN 50267-2-1	EN 50267-2-3	IEC 61034-2	EN 60332-3-24	LPCB Ref. No.
FSB 3000 Multicore	2.5	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	4.0	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	6.0	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	10	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	16	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	25	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	35	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	50	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	70	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	95	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	120	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	150	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	185	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	240	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
FSB 3000 Multicore	300	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02

Uo/U 600/1000V

Notes:

1. Stranded conductor only.

2. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the FSB 3000 Muticore cables listed also met the requirements of EN 50267-2-2:1999.

3. The FSB 3000 Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°?C for a duration of 180mins at a voltage rating of 600/1000V.

4. The FSB 3000 Multicore cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1069e to IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 IEC 60754-1:2011 IEC 60754-2:2011 EN 60332-3-24:2009

FSB 5000 Single Core

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	IEC 60754-1	IEC 60754-2	IEC 61034-2	EN 60332-3-24	LPCB Ref. No.
FSB 5000 Single Core	70	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	95	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	120	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	150	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	185	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	240	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	300	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	400	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	500	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
FSB 5000 Single Core	630	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01

Bahri & Mazroei Technical Systems Co. LLC

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Certificate No: 1816a/01 to BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (Category CWZ), EN 60754-2:2014, BS 5839-1:2013 (Clause 26.2d Standard), EN 50200:2015 (Class PH120) , EN 50200:2015 Annex E, EN 60332-3-22:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 3	BS 6387	EN 50200	EN 50200 See note 4	BS 5839-1 See note 5	EN 60754-2	EN 60332-3-22	LPCB Ref. No.
URANUS BMUR120E30	1.0 (see note1)	2	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1816a/01
URANUS BMUR120E30	1.5 (see note 1)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1816a/01
URANUS BMUR120E30	2.5 (see note 1)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1816a/01
URANUS BMUR120E30	4.0 (see note 1 & 2)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1816a/01

Uo/U 300/500V
Notes:
1. Solid conductor only.
2. Stranded conductor only.
3. In meeting the requirements of BS 7629-1:2015 Standard 60, the URANUS BMUR120E30 Cable listed met the requirements for smoke density to EN 61034-2:2005 and achieved less than 0.5%HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1 and in addition also met the fire resistance requirements in BS 6387:2013 Categories CWZ.
4. The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.
5. The URANUS BMUR120E30 Cable listed conform to BS 7629-1:2015 Standard 60, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.

Certificate No: 1816b/01 to BS 6387:2013 (Category CWZ), EN 50200:2015 (Class PH120) , EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-3-24:2009, EN 60754-2:2014

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 60754-1	EN 60754-2	IEC 60332-3-24	LPCB Ref. No.
URANUS BMUR120	1.0 (see note1)	2	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1816b/01
URANUS BMUR120	1.5 (see note 2)	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1816b/01
URANUS BMUR120	2.5 (see note 2)	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1816b/01

Uo/U 300/500V
Notes:
1. Solid conductor only.
2. Solid & Stranded conductors.

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Organize Sanayi Bölgesi 3, Cadde No: 32 Merkez, Bolu, Turkey
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Certificate No: 1263a to IEC 60331-21:1999 EN 61034-2:2005+A2:2020 IEC 60754-1:2014 IEC 60754-2:2014

SIMH-O (Single Core)

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
SIMH-O (Single Core)	1.5	One	(180+15) minutes	>60%	<0.5%HCl	Complies	1263a/01
SIMH-O (Single core)	2.5	One	(180+15) minutes	>60%	<0.5% HCl	Complies	1263a/01
SIMH-O (Single core)	4.0	One	(180+15) minutes	>60%	<0.5% HCl	Complies	1263a/01
SIMH-O (Single core)	6.0	One	(180+15) minutes	>60%	<0.5% HCl	Complies	1263a/01
SIMH-O (Single core)	10	One	(180+15) minutes	>60%	<0.5% HCl	Complies	1263a/01

Certificate No: 1263c to IEC 60331-21:1999 EN 50200:2015 (Class PH120) IEC 61034-2:2005+A2:2020 IEC 60754-1:2014 IEC 60754-2:2014

JE-H(ST)H

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	IEC 60331-21	EN 50200	IEC 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
JE-H(ST)H	0.5	1 & 2 Pairs	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263c/01
JE-H(ST)H	1.0	1 & 2 Pairs	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263c/01
JE-H(ST)H	1.5	1 & 2 Pairs	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263c/01

Certificate No: 1263d to IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60754-2:2014

LIHCH

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 50200	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
LIHCH	0.5	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263d/01
LIHCH	0.75	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263d/01
LIHCH	1.0	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263d/01
LIHCH	1.5	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263d/01

Certificate No: 1263e to IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 61034-2:2005 + A2:2020 EN 60754-1:2014 EN 60754-2:2014

LIHH

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 50200	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
LIHH	0.5	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5%HCl	Complies	1263e/01
LIHH	0.75	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263e/01
LIHH	1.0	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263e/01
LIHH	1.5	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263e/01

Belden Wire & Cable B. V.

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Certificate No: 1460a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009, BS 6387:2013 (Category CWZ) , EN 50200:2015 (Class PH120), EN 50200:2015 Annex E , EN 60754-1:2014 , EN 61034-2:2005+A2:2020 , EN 60332-3-24:2018 , EN 60332-3-25:2018

SAFE-T-LINE

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
SAFE-T-LINE	1.0 See note 1	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	PH120 & Annex E	1460a/01
SAFE-T-LINE	1.5 See note 1	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	PH120 & Annex E	1460a/01
SAFE-T-LINE	2.5 See note 1	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	PH120 & Annex E	1460a/01
SAFE-T-LINE	4.0See note 2	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	PH120 & Annex E	1460a/01

Uo/U 300/500V

Notes:

Solid and stranded conductors only.

Stranded conductor only.

Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.

Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Brilliant Lighting Limited

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E-mail: leo@brillianthk.com.hk

Certificate No: 1778a to BS 6387:2013 (Category CWZ), EN 50200:2015 (Class PH120) , BS 8434-2:2003+A2:2009, IEC 60332-3-24:2018 , IEC 60331-21:1999, EN 60754-1: 2014, EN 61034-2:2005+A2:2020

Fire Resistant

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction	BS 6387 See note 2 & 3	EN 50200 See note 2 & 3	BS 8434-2 See note 2 & 3	IEC 60331-21 See note 4	EN 60754-1	EN 61034-2	IEC 60332-3-24	LPCB Ref. No.
a & b Non-Armoured Fire Resistant Single Core Cable	2.5	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	4.0	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	1.5	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	6.0	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	10	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	16	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	35	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	25	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	70	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	50	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	120	One	C	-	-	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01
a & b Non-Armoured Fire Resistant Single Core Cable	95	One	CWZ	PH 120	120 minutes	(90+15) minutes	>0.5% HCl	>60%	Complies	1778a/01

Uo/U 600/1000V Notes:

1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. When testing to BS 6387:2013 for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit. Either one or three conductors are tested, and this is dependent on the cable diameter. The conduit in all cases is connected to the neutral of the transformer.
4. These cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750ºC and at a voltage rating of 600V.

British Cables Company

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Certificate No: 1635a to

FLAMGUARD 100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
FLAMGUARD 100	1.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01
FLAMGUARD 100	2.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01
FLAMGUARD 100	4.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01
FLAMGUARD 100	6.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01
FLAMGUARD 100	10	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01
FLAMGUARD 100	16	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01

Certificate No: 1635b to BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (C, W, Z) , BS 5839-1:2013 (Clause 26.2d Standard)

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 7629-1 See note 3	BS 6387	EN 5839-1 See note 4	LPCB Ref. No.
FLAMGUARD 200	1.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	clause 26.2d	1635b/01
FLAMGUARD 200	2.5(2)	2, 3 & 4	STANDARD 60	C, W, Z	clause 26.2d	1635b/01
FLAMGUARD 200	4.0(2)	2, 3 & 4	STANDARD 60	C, W, Z	clause 26.2d	1635b/01

Uo/U 300/500V
Notes:
1. Solid conductor only.
2. Stranded conductor only.
3. In meeting the requirements of BS 7629-1:2015 Standard 60, the FLAMGUARD 200 cables listed met the requirements for smoke density of EN 61034-2:2005 + A1:2020, and achieved less than 0.5% HCl for the insulation, binder tape, and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
4. The FLAMGUARD 200 cables listed conform to BS 7629-1:2015 Standard 60, met Class PH60 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in the clause 26.2d of BS 5839-1:2013.

Certificate No: 1635c to BS 6387:2013 (CWZ) , EN 60754-1:2014, EN 60332-1-2:2004 , EN 61034-2:2005+A2:2020, EN 50200-2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 8434-2:2003+A2:2009

Fire resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 6387	BS 8434-2	EN 50200	EN 61034-2	EN 60754-1	EN 60332-1-2	LPCB Ref. No.
FLAMGUARD 300	4.0(2)	2, 3 & 4	C, W, Z	120 minutes	PH 120	>60%	>0.5% HCl	Complies	1635c/01
FLAMGUARD 300	1.5(1)	2, 3 & 4	C, W, Z	120 minutes	PH 120	>60%	>0.5% HCl	Complies	1635c/01
FLAMGUARD 300	2.5(2)	2, 3 & 4	C, W, Z	120 minutes	PH 120	>60%	>0.5% HCl	Complies	1635c/01

Uo/U 300/500V
Notes:
Solid conductor only.
Stranded conductor only.

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Certificate No: 1510b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

FC200 Fire Combat Cables & FC200S Fire Combat Cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 50200	EN 50200	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
FC200 Fire Combat Cables	1.0	2, 3 & 4	C,W,Z	PH30	Annex E	<0.5%	>60%	Complies	1510b/01
FC200 Fire Combat Cables	1.5	2, 3 & 4	C,W,Z	PH30	Annex E	<0.5%	>60%	Complies	1510b/01
FC200 Fire Combat Cables	2.5	2, 3 & 4	C,W,Z	PH30	Annex E	<0.5%	>60%	Complies	1510b/01

Uo/U 300/500V Notes:
1. Solid Conductor only.

Certificate No: 1510d to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

FM200 FIRE RESISTANT CABLE SIMPLEX

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 50200	EN 50200	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
FM200 FIRE RESISTANT CABLE	1.5	2, 3 & 4	C, W,	PH120	Annex	<0.5%	>60%	Complies	1510d/01

SIMPLEX			Z		E				
FM200 FIRE RESISTANT CABLE SIMPLEX	2.5	2, 3 & 4	C, W, Z	PH120	Annex E	<0.5%	>60%	Complies	1510d/01

Uo/U 300/500V Notes:
1. Solid Conductor only.

Burn Cable Management Systems (B.C.M.S SARL)

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Certificate No: 1510e to EN 60702-1:2002+A1:2015, BS 6387:2013 (Category CWZ)

Mineral Cable Simplex Light Duty

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60702-1	LPCB Ref. No.
Mineral Cable Simplex Light Duty	1.0	2, 3, 4 & 7	C, W, Z	Complies	1510e/01
Mineral Cable Simplex Light Duty	1.5	2, 3, 4 & 7	C, W, Z	Complies	1510e/01
Mineral Cable Simplex Light Duty	2.5	2, 3, 4 & 7	C, W, Z	Complies	1510e/01
Mineral Cable Simplex Light Duty	4.0	2	C, W, Z	Complies	1510e/01
Mineral Cable Simplex Single Core Heavy Duty	1.5	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	2.5	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	4.0	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	6.0	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	10	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	16	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	25	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	35	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	50	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	70	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	95	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	120	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	150	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	185	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	240	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	300	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Single Core Heavy Duty	400	One	C, W, Z	Complies	1510e/02
Mineral Cable Simplex Multicore Heavy Duty	1.5	2, 3, 4, 7, 12 & 19	C, W, Z	Complies	1510e/03
Mineral Cable Simplex Multicore Heavy Duty	2.5	2, 3, 4, 7 & 12	C, W, Z	Complies	1510e/03
Mineral Cable Simplex Multicore Heavy Duty	4.0	2, 3 & 4	C, W, Z	Complies	1510e/03
Mineral Cable Simplex Multicore Heavy Duty	6.0	2, 3 & 4	C, W, Z	Complies	1510e/03
Mineral Cable Simplex Multicore Heavy Duty	10	2, 3 & 4	C, W, Z	Complies	1510e/03
Mineral Cable Simplex Multicore Heavy Duty	16	2, 3 & 4	C, W, Z	Complies	1510e/03
Mineral Cable Simplex Multicore Heavy Duty	25	2, 3 & 4	C, W, Z	Complies	1510e/03

Mineral Cable Simplex Light Duty

Uo/U 300/500V

Notes:

1. The above range is certified in both Bare and Served constructions.

Mineral Cable Simplex Single Core Heavy Duty

Uo 750V

Notes:

1. The above range is certified in both Bare and Served constructions.

2. For cable with an overall diameter in excess of 20mm, the category Z tests were conducted in accordance with guidance from the manufacturer.

Mineral Cable Simplex Multicore Heavy Duty

Uo/U 450/750V

Notes:

1. The above range is certified in both Bare and Served constructions.

2. For cable with an overall diameter in excess of 20mm, the category Z tests were conducted in accordance with guidance from the manufacturer.

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Certificate No: 217d to BS 6387:2013 (Category CWZ) EN 70754-1:2014 EN 60754-2:2014 BS 8434-2:2003+A2:2009 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60331-21:1999

FIRECEL SR 112

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	BS 8434-2	EN 50200	IEC 60331-21	EN 60754-2	EN 60754-1	LPCB Ref. No.
FIRECEL SR 112	1.5	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	2.5	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	4.0	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	6.0	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	10	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	16	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	25	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	35	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	50	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
FIRECEL SR 112	70	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01

Certificate No: 217f to BS 7629-1:2015 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH60) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FIRECEL SR 114H

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
FIRECEL SR 114H	1.0	2	Standard 30	C, W, Z	Class PH30	30min	Standard	217f/01
FIRECEL SR 114H	1.5	2, 3 & 4	Standard 60	C, W, Z	Class PH60 & PH120	30min	Standard	217f/01
FIRECEL SR 114H	2.5	2, 3 & 4	Standard 60	C, W, Z	Class PH60 & PH120	30min	Standard	217f/01
FIRECEL SR 114H	4.0	2, 3 & 4	Standard 60	C, W, Z	Class PH60 & PH120	30min	Standard	217f/01

Certificate No: 217g to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (Category CWZ) BS EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 Clause 11 (Category 3)

FIRECEL SR 114E

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	BS 8519	LPCB Ref. No.
FIRECEL SR 114E	1.0	2	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	217g/01
FIRECEL SR 114E	1.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	217g/01
FIRECEL SR 114E	2.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	217g/01
FIRECEL SR 114E	4.0	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	217g/01

Certificate No: 217i to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Opticel FR

Product Name	No Of Fibre Optic	No. Of Tubes	Type Of Fibre	IEC 60331-25	EN 61034-2	EN 60754-1	LPCB Ref. No.

OPTICEL FR	48 FO	1-4	SM - MM	Complies	>60%	<0.5% HCl	217i/01
OPTICEL FR	72 FO	1-6	SM - MM	Complies	>60%	<0.5% HCl	217i/01

Certificate No: 217m to EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FIRECEL LAN 6

Product Name	Nominal csa of conductor (AWG)	Core Construction	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
FIRECEL LAN 6	22	4 pairs	PH 120	>60%	<0.5% HCl	217m/01

Certificate No: 217n to BS 6387:2013 CWZ EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014

FIRECEL SR 104

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 50200 Annex E	EN 61034-2	EN 60754-1	LPCB Ref. No.
FIRECEL SR 104	1.5	2, 3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	217n/01
FIRECEL SR 104	2.5	2, 3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	217n/01
FIRECEL SR 104	4.0	2, 3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	217n/01

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Certificate No: 1798a to BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (CWZ) , EN 50200-2015 (Class PH120), EN 50200:2015 Annex E, EN 60332-3-25:2009 , BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-24:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 3	BS 6387	EN 50200	EN 50200 See note 4	BS 5839-1 See note 5	LPCB Ref. No.
X-BURN PLATINUM	1.0(1)	2	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	1798a/01
X-BURN PLATINUM	1.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	1798a/01
X-BURN PLATINUM	2.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	1798a/01
X-BURN PLATINUM	4.0(2)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	1798a/01

Uo/U 300/500V

tes:

Solid conductor only.

Stranded conductor only.

In meeting the requirements of BS 7629-1:2015 Standard 60, the X-BURN PLATINUM cables listed met the requirements for smoke density of EN 61034-2, achieved less than 0.5%HCl for the outer covering, binder tape and insulation when tested in accordance with EN 60754-1 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.

The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.

The X-BURN PLATINUM cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2d of BS 5839-1:2013.

Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.

Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 1798b to BS 6387:2013 (CWZ) , EN 50200-2015 (Class PH120), EN 60754-1:2014, EN 50200:2015 Annex E, EN 60754-1:2014 , EN 61034-2:2005+A2:2020 , EN 60332-3-24:2018 , EN 60332-3-25:2018 , EN 61034-2:2005+A1:2013, EN 60332-3-25:2009 , EN 60332-3-24:2009 , BS 6387:2013 (Category CWZ) , EN 50200:2015 (Class PH120), EN 50200:2015 Annex E

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
X-BURN PREMIUM	1.0 See note 1	2, 3 & 4	C, W, Z	PH120 & Annex E	>60%	<0.5% HCl	1798b/01
X-BURN PREMIUM	1.5 See note 1	2 ,3 & 4	C, W, Z	PH120 & Annex E	>60%	>0.5% HCl	1798b/01
X-BURN PREMIUM	2.5 See note 1	2, 3 & 4	C, W, Z	PH120 & Annex E	>60%	>0.5% HCl	1798b/01

X-BURN PREMIUM	4.0 See note 2	2, 3 & 4	C, W, Z	PH120 & Annex E	>60%	<0.5% HCl	1798b/01

Uo/U 300/500V

Notes:

Solid and stranded conductors only.

Stranded conductor only.

Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.

Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 1798c to BS 7629-1:2015 (ENHANCED-120), BS 6387:2013 (CWZ) , BS 8434-2:2003+A2:2009, EN 50200-2015 (Class PH120), EN 60332-3-24:2009 , BS 5839-1:2013 (clause 26.2e Enhanced), EN 60332-3-25:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 2	BS 6387	EN 50200	BS 8434-2 See note 3	BS 5839-1 See note 4	LPCB Ref. No.
X-BURN XCEL	1.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH 120	120 minutes	Clause 26.2e	1798c/01
X-BURN XCEL	1.0	2	ENHANCED 120	C, W, Z	PH120	120 minutes	Clause 26.2e	1798c/01
X-BURN XCEL	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH 120	120 minutes	Clause 26.2e	1798c/01
X-BURN XCEL	4.0	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 minutes	Clause 26.2e	1798c/01

ı/U 300/500V

ıtes:

Solid and stranded conductors.

In meeting the requirements of BS 7629-1:2015 Enhanced 120, the X-BURN XCEL cables listed met the requirements for smoke density of EN 61034-2, achieved less than 0.5%HCl for the outer covering, binder tape and insulation when tested in accordance with EN 60754-1 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.

The duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60 minutes for the fire and mechanical shock phase and an additional 60 minutes for the fire, mechanical shock and water phase.

The X-BURN XCEL cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 120 minutes duration when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2013.

Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.

Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

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Certificate No: 1410a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009, BS 6387:2013 (Category CWZ) , EN 50200:2015 (Class PH120) , EN 50200:2015 Annex E , EN 60754-1:2014 , EN 61034-2:2005+A2:2020 , EN 60332-3-24:2018 , EN 60332-3-25:2018

ZFLAM200

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
ZFLAM200	1.0 See note 1	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	1410a/01
ZFLAM200	1.5 See note 1	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	1410a/01
ZFLAM200	2.5 See note 1	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	1410a/01
ZFLAM200	4.0See note 2	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	1410a/01

Uo/U 300/500V

Notes:

Solid and stranded conductors only.

Stranded conductor only.

Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.

Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

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Certificate No: 172h to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (Category CWZ) BS EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 Clause 11 (Category 3)

DFS EN BS

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	BS 8519	LPCB Ref. No.
DFS EN BS	1.0	2	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	172h/01
DFS EN BS	1.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	172h/01
DFS EN BS	2.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	172h/01
DFS EN BS	4.0	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	172h/01

Certificate No: 172i to BS 7629-1:2015 (Standard 30 & 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH60 & PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

DFS ST BS

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	LPCB Ref. No.
DFS ST BS	1.0	2	Standard 30	C W Z	Class PH30	30 mins	Standard	172i/01
DFS ST BS	1.5	2,3 & 4	Standard 60	C W Z	Class PH60 & PH120	30 mins	Standard	172i/01
DFS ST BS	2.5	2,3 & 4	Standard 60	C W Z	Class PH60 & PH120	30 mins	Standard	172i/01
DFS ST BS	4.0	2,3 & 4	Standard 60	C W Z	Class PH60 & PH120	30 mins	Standard	172i/01

Certificate No: 172j to BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 61034-2:2005+A2:2020 EN 60754-1:2014

DFS ME BS

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 50200 Annex E	EN 61034-2	EN 60754-1	LPCB Ref. No.
DFS ME BS	1.5	2,3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	172j/01
DFS ME BS	2.5	2,3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	172j/01
DFS ME BS	4.0	2,3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	172j/01

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Certificate No: 1281a to BS 7846:2015 (Category F2 & F120) EN 60754-1:2014 EN 60754-2:2014 BS 8519:2010 (Category 3)

FIRE GUARD 1000 PLUS

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 60754-2	BS 8519	LPCB Ref. No.
FIRE GUARD 1000 PLUS	50	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	70	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	95	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	120	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	150	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	185	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	240	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	300	4	F2 & F120	Complies	Category 3	1281a/01
FIRE GUARD 1000 PLUS	10	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	16	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	25	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02

FIRE GUARD 1000 PLUS	35	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	50	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	70	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	95	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	120	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	150	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	185	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	240	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	300	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	400	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
FIRE GUARD 1000 PLUS	4.0	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	6.0	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	10	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	16	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	25	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	35	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	50	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	70	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	95	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	120	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	150	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	185	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	240	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	300	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
FIRE GUARD 1000 PLUS	400	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03

Certificate No: 1281b to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 IEC 60331-21:1999 EN 60332-1-2:2004+A11:2016

FIRE GUARD 100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	EN 60332-1-2	LPCB Ref. No.
FIRE GUARD 100®	1.5	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	2.5	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	4.0	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	6.0	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	10	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	16	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	25	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	35	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	50	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	70	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	95	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	120	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	150	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	185	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	240	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	300	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	400	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	500	One	-	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
FIRE GUARD 100®	630	One	-	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01

Certificate No: 1281c to BS 7846:2015 Cat F2 EN 60754-2:2014 IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 8434-2:2003+A2:2009

FIRE GUARD 1000

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846-1	EN 60754-2	IEC 60331-21	EN 50200	BS 8434-2	LPCB Ref. No.
FIRE GUARD 1000	2.5	2,3 & 4	F2	Complies	Complies	PH120 & Annex E	120min	1281c/01
FIRE GUARD 1000	4.0	2,3 & 4	F2	Complies	Complies	PH120 & Annex E	120min	1281c/01
FIRE GUARD 1000	6.0	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	10	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	16	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	25	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	35	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	50	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	70	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	95	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	120	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	150	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	185	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	240	2,3 & 4	F2	Complies	Complies	-	-	1281c/01
FIRE GUARD 1000	300	2,3 & 4	F2	Complies	Complies	-	-	1281c/01

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Certificate No: 338b to BS 7629-1:2015 BS 6387:2013 (Category CWZ) IEC 60331-21:1999 IEC 60332-3-24:2000+A1:2008 EN 50200:2015 (PH120) BS 8434-2:2003+A2:2009 120 min BS 5839-1:2002+A2:2013 Clause 26.2e

FIRESURE PLUS

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	BS 6387	IEC 60332-3-24	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
FIRESURE PLUS	1.0	2	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	338b/01
FIRESURE PLUS	1.5	2,3 & 4	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	338b/01
FIRESURE PLUS	2.5	2,3 & 4	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	338b/01
FIRESURE PLUS	4.0	2,3 & 4	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	338b/01

Certificate No: 338c to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 5839-1:2017 (Clause 26.2d Standard) BS 8519:2010 Clause 11 (Category 1)

FIRESURE 500

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200	BS 5839-1 Clause 26.2d	BS 8519 Clause 11	LPCB Ref. No.
FIRESURE 500	1.0	2	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	338c/01
FIRESURE 500	1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	338c/01
FIRESURE 500	2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	338c/01
FIRESURE 500	4.0	2, 3 & 4	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	338c/01

Certificate No: 338e to BS 8592:2016 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

FIRESURE 1

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8592	BS 6387	BS 50200	BS 8434-2	IEC 60331-21	LPCB Ref. No.
FIRESURE 1	1.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	2.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	4.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	6.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	10	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	16	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	25	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	35	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	50	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
FIRESURE 1	70	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01

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Certificate No: 994a to

FIRETUF Classic MI SIFER (s)

Product Name	Nominal csa of conductor (mm²)	Core construction(See note 1)	BS 6387(See notes 2 - 4)	BS EN 50267-2-1	BS EN 61034-2	IEC 60331-21(See note 9)	LPCB Ref. No.
FIRETUF Classic MI SIFER (s)	1.5	One	C, W, Z(5)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	2.5	One	C, W, Z(5)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI	4.0	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01

SIFER (s)							
FIRETUF Classic MI SIFER (s)	6.0	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	10	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	16	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	25	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	35	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	50	One	C, W, Z(6, 7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	70	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	95	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	120	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	150	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	185	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	240	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	300	One	C(7)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	400	One	Complies(8)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	500	One	Complies(8)	<0.5% HCl	>60%	Complies	994a/01
FIRETUF Classic MI SIFER (s)	630	One	Complies(8)	<0.5% HCl	>60%	Complies	994a/01

Uo/U 600/1000V

Notes:

1) Stranded conductor only.

2) Clauses 8 (Bending) and 9.1 & 9.2 (Impact) cannot be conducted due to the calbe having only one core.

3) These cables also met category C, W, Z when tested for voltage rating 600/1000V which is not recognised by BS 6387.

4) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.

5) To satisfy the requirement of BS 6387, testing for C, W & Z.categories were conducted using a 20mm stainless steel conduit as the other metallic element.

6) To satisfy the requirement of BS 6387, testing for W & Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.

7) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.

8) Only Clause 10 of BS 6387 was conducted.

9) These cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750^{o}C and at a voltage rating of 600V.

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Certificate No: 1134a to BS 7629-1: 2015 (STANDARD 60), BS 6387: 2013 (C,W,Z), EN 50200: 2015 Class PH120, EN 50200: 2015 Annex E and BS 5839-1: 2013 (Clause 26.2d Standard)

FT30

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire & earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 (Annex E)	EN 5839-1 (clause 26.2)	LPCB Ref. No.
FT30	1.5	2, 3 & 4	STANDARD 60	C,W,Z	PH120	30min	Standard	1134a/01
FT30	2.5	2, 3 & 4	STANDARD 60	C,W,Z	PH120	30min	Standard	1134a/01
FT30	4.0	2, 3 & 4	STANDARD	C,W,Z	PH120	30min	Standard	1134a/01

Certificate No: 1134b to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FT120

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
FT120	1.5	2, 3 & 4	ENHANCED 120	C,W,Z	PH120	120min	Enhanced	1134b/01
FT120	2.5	2, 3 & 4	ENHANCED 120	C,W,Z	PH120	120min	Enhanced	1134b/01
FT120	4.0	2, 3 & 4	ENHANCED 120	C,W,Z	PH120	120min	Enhanced	1134b/01

Certificate No: 1134c to BS 6387:2013 and IEC 60331-21: 1999

FT SIFER 950i

Product Name	Nominal csa of conductor (mm²)	Core construction	BS 6387	IEC 60331-21	LPCB Ref. No.
FT SIFER 950i	16	One(1)	C, W, Z(2-4)	Complies(6)	1134c/01
FT SIFER 950i	25	One(1)	C, W, Z(2-4)	Complies(6)	1134c/01
FT SIFER 950i	35	One(1)	C, W, Z(2-4)	Complies(6)	1134c/01
FT SIFER 950i	50	One(1)	C, W, Z(2-4)	Complies(6)	1134c/01
FT SIFER 950i	70	One(1)	C, W, Z(2-4)	Complies(6)	1134c/01
FT SIFER 950i	95	One(1)	C, W, Z(2-4)	Complies(6)	1134c/01
FT SIFER 950i	120	One(1)	C(2&5)	Complies(6)	1134c/01
FT SIFER 950i	150	One(1)	C(2&5)	Complies(6)	1134c/01
FT SIFER 950i	185	One(1)	-	Complies(6)	1134c/01
FT SIFER 950i	240	One(1)	-	Complies(6)	1134c/01
FT SIFER 950i	300	One(1)	-	Complies(6)	1134c/01
FT SIFER 950i	400	One(1)	-	Complies(6)	1134c/01
FT SIFER 950i	500	One(1)	-	Complies(6)	1134c/01
FT SIFER 950i	630	One(1)	-	Complies(6)	1134c/01

Uo/U 600/1000V

Notes:

1) Stranded conductor only.

2) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.

3) To satisfy the requirement of BS 6387, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.

4) To satisfy the requirement of BS 6387, testing for W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.

5) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.

6) The FT SIFER 950i cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950^{o}C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Certificate No: 1134d to BS 8491: 2008, EN 60754-1: 2014 and BS EN 61034-2: 2005

FTP120

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2	LPCB Ref. No.
FTP 120	2.5	7	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	4	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	6.0	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	10	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	16	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	25	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	35	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	50	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	70	2 & 3	120 min	<0.5% HCl	>60%	1134d/01
FTP 120	70	4	120 min	<0.5% HCl	>60%	1134d/02
FTP 120	95	2 , 3 & 4	120 min	<0.5% HCl	>60%	1134d/02
FTP 120	120	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/02
FTP 120	150	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/02
FTP 120	185	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/02

FTP 120	240	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/02
FTP 120	300	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/02
FTP 120	400	2, 3 & 4	120 min	<0.5% HCl	>60%	1134d/02

Certificate No: 1134e to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FTP

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
FTP	1.5	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	2.5	2, 3, & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	4.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	6.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	10	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	16	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	25	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	35	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	50	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
FTP	70	2 & 3	CWZ	>60%	<0.5% HCl	1134e/02

Certificate No: 1134f to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FTP

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
FTP	70	4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	95	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	120	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	150	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	185	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	240	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	300	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01
FTP	400	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134f/01

Certificate No: 1134h to BS 6387:2013 (Category CWZ), EN 60754-1:2014 and IEC 60331-21:1999

FT SIFER 950s

Product Name	Nominal csa of conductor (mm²) See note 1	Core Construction	BS 6387 See note 2 & 3	EN 60754-1 (outer covering)	IEC 60331-21 See note 4	LPCB Ref. No.
FT SIFER 950s	1.0	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	1.5	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	2.5	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	4.0	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	6.0	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	10	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	16	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	25	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	35	One	C W Z	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	50	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	70	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	95	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	120	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	150	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	185	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	240	One	C	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	300	One	-	<0.5% HCl	Complies	1134h/01
FT SIFER 950s	400	One	-	<0.5% HCl	Complies	1134h/01
FT SIFER	500	One	-	<0.5% HCl	Complies	1134h/01

950s						
FT SIFER 950s	630	One	-	<0.5% HCl	Complies	1134h/01

Uo/U 600/1000 V
Notes:
Stranded conductors only.
Where a single cable fitted in a conduit, only phase to earth voltage was applied.
When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit. Either one or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.
The FT SIFER 950s cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 950°C for a duration of (90 + 15) minutes cool down, at a voltage rating of 600V.

Certificate No: 1134j to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FT30 SAFFIRE

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	LPCB Ref. No.
FT30 SAFFIRE	1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	30min	Standard	1134j/01
FT30 SAFFIRE	2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	30min	Standard	1134j/01
FT30 SAFFIRE	4.0	2, 3 & 4	Standard 60	C, W, Z	PH120	30 min	Standard	1134j/01

Certificate No: 1134l to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FT 120 Saffire

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
FT 120 Saffire	1.5	2	Enhanced 120	C, W, Z	PH120	120 min	Enhanced	1134l/01
FT 120 Saffire	2.5	2	Enhanced 120	C, W, Z	PH120	120 min	Enhanced	1134l/01

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Certificate No: 782a to BS 7846: 2015 Cat F2

Ducab Flam BICC 4

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
Ducab Flam BICC 4	16	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	25	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	35	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	50	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	70	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	95	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	120	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	150	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	185	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	240	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	300	2, 3 & 4	F2	782a/01
Ducab Flam BICC 4	400	2, 3 & 4	F2	782a/01

Certificate No: 782c to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-24:2009 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120)

Ducab Flam BICC 1

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	BS 8434-2	EN 50200	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
Ducab Flam BICC 1	1.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	782c/01
Ducab Flam BICC	2.5	One	CWZ	120	PH120	<0.5%	>60%	-	Complies	782c/01

1				mins		HCl				
Ducab Flam BICC 1	4.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	782c/01
Ducab Flam BICC 1	6.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	782c/01
Ducab Flam BICC 1	10	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	16	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	25	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	35	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	50	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	70	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	95	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	120	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	150	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	185	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	240	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	300	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	400	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	500	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	630	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	800	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01
Ducab Flam BICC 1	1000	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	782c/01

Certificate No: 782f to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005 IEC 60331-21:1999

Ducab Flam BICC 3

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
Ducab Flamm BICC 3	1.5	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	2.5	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	4.0	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	6.0	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	10	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	16	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	25	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	35	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	50	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	70	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	95	One	C	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	120	One	C	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	150	One	C	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	185	One	C	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	240	One	C	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	300	One	C	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	400	One	C	<0.5% HCl	>60%	Complies	782f/01

Ducab Flamm BICC 3	500	One	-	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	630	One	-	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	800	One	-	<0.5% HCl	>60%	Complies	782f/01
Ducab Flamm BICC 3	1000	One	-	<0.5% HCl	>60%	Complies	782f/01

Certificate No: 782g to BS 7846:2015 Cat F2 & F120 BS 8519:2010 Clause 11 Cat 3

Ducab Flam BICC 6

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	BS 8519	LPCB Ref. No.
Ducab Flam BICC 6	16	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	25	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	35	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	50	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	70	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	95	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	120	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	150	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	185	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	240	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	300	2, 3 & 4	F2 & F120	Cat 3	782g/01
Ducab Flam BICC 6	400	2, 3 & 4	F2 & F120	Cat 3	782g/01

Certificate No: 782l to IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Ducab FlamBICC 4 AL Armr

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 60754-1	EN 61034-2	LPCB Ref. No.
Ducab FlamBICC 4 AL Armr	35	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	50	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	70	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	95	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	120	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	150	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	185	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	240	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	300	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	400	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	500	1	Complies	<0.5% HCl	>60%	782l/01
Ducab FlamBICC 4 AL Armr	630	1	Complies	<0.5% HCl	>60%	782l/01

Certificate No: 782m to BS 8592:2016 BS 6387:2013 Category CWZ EN 61034-2:2005+A1:2013 IEC 60331-21:1999 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60332-3-24:2009 EN 60754-1:2014 IEC 60331-3:2009 EN 60332-1-2:2004+A1:2015

Ducab Flam BICC 1 BS 8592

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8592	BS 6387	BS 8434-2	EN 50200	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
Ducab Flam BICC 1 BS 8592	1.5	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	782m/01
Ducab Flam BICC 1 BS 8592	2.5	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	782m/01
Ducab Flam BICC 1 BS 8592	4.0	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	782m/01
Ducab Flam BICC 1 BS 8592	6.0	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	782m/01
Ducab Flam BICC 1 BS 8592	10	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	782m/01
Ducab Flam BICC 1 BS 8592	16	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	782m/01
Ducab Flam BICC 1 BS 8592	25	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	782m/01
Ducab Flam BICC 1 BS 8592	35	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	782m/01
Ducab Flam BICC 1 BS 8592	50	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	782m/01
Ducab Flam BICC 1 BS 8592	70	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	782m/01

Certificate No: 782n to IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014 BS 6387:2013 (Category CWZ)

Ducab FlamBICC 3 Multicore

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	IEC 60332-3-24	LPCB Ref. No.
FlamBICC 3 Multicore	25	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	35	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	50	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	70	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	95	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	120	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	150	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	185	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	240	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	300	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
FlamBICC 3 Multicore	400	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01

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Certificate No: 949a to BS 7846:2015 Cat F2

Ducab Flam BICC 4

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
Ducab Flam BICC 4	1.5	2, 3 & 4	F2	949a/01
Ducab Flam BICC 4	2.5	2, 3 & 4	F2	949a/01
Ducab Flam BICC 4	4.0	2, 3 & 4	F2	949a/01
Ducab Flam BICC 4	6.0	2, 3 & 4	F2	949a/01
Ducab Flam BICC 4	10	2, 3 & 4	F2	949a/01

Certificate No: 949b to BS 7846:2015 Cat F2 & F120 BS 8519:2010 Clause 11 Cat 3

Ducab Flam BICC 6

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	BS 8519	LPCB Ref. No.
Ducab Flam BICC 6	4.0	2, 3 & 4	F2 & F120	Cat 3	949b/01
Ducab Flam BICC 6	6.0	2, 3 & 4	F2 & F120	Cat 3	949b/01
Ducab Flam BICC 6	10	2, 3 & 4	F2 & F120	Cat 3	949b/01

Certificate No: 949c to BS 6387:2013 CWZ IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014 IEC 60332-3-24:2009

FlamBICC 3 Multicore

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	IEC 60332-3-24	LPCB Ref. No.
FlamBICC 3 Multicore	1.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
FlamBICC 3 Multicore	1.5	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
FlamBICC 3 Multicore	2.5	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
FlamBICC 3 Multicore	4.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
FlamBICC 3 Multicore	6.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
FlamBICC 3 Multicore	10	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
FlamBICC 3 Multicore	16	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01

Certificate No: 949d to BS 7629-1:2015 Standard 60 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS5839-1:2013 (Clause 26.2d Standard)

Ducab Flam BICC 2a Standard

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1	LPCB Ref. No.
Ducab Flam BICC 2a Standard	1.5	2, 3 & 4	Standard 60	C,W,Z	PH120	30 mins	Standard 26.2d	949d/01
Ducab Flam BICC 2a Standard	2.5	2, 3 & 4	Standard 60	C,W,Z	PH120	30 mins	Standard 26.2d	949d/01
Ducab Flam BICC 2a Standard	4.0	2, 3 & 4	Standard 60	C,W,Z	PH120	30 mins	Standard 26.2d	949d/01

Certificate No: 949e to BS 7629-1:2015 Enhanced BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 Cat 3

Ducab Flam BICC 2a Enhanced

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 8519	BS 8434-2	BS 5839-1	LPCB Ref. No.
Ducab Flam BICC 2a Enhanced	1.5	2, 3 & 4	Enhanced 120	C,W,Z	PH120	Cat 3	120 mins	Enhanced 26.2e	949e/01
Ducab Flam BICC 2a Enhanced	2.5	2, 3 & 4	Enhanced 120	C,W,Z	PH120	Cat 3	120 mins	Enhanced 26.2e	949e/01
Ducab Flam BICC 2a Enhanced	4.0	2, 3 & 4	Enhanced 120	C,W,Z	PH120	Cat 3	120 mins	Enhanced 26.2e	949e/01

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Certificate No: 781a to BS 7846:2015 Cat F2

Ducab Flam BICC 4

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
Ducab Flam BICC 4	1.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	781a/01
Ducab Flam BICC 4	2.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	781a/01
Ducab Flam BICC 4	4.0	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	781a/01
Ducab Flam BICC 4	6.0	2, 3 & 4	F2	781a/01
Ducab Flam BICC 4	10	2, 3 & 4	F2	781a/01
Ducab Flam BICC 4	16	2, 3 & 4	F2	781a/01
Ducab Flam BICC 4	25	2, 3 & 4	F2	781a/01
Ducab Flam BICC 4	35	2, 3 & 4	F2	781a/01

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Certificate No: 1290a to BS 7846:2015 (Category F2) EN 50200:2015 (Class PH60) EN 50200:2015 Annex E (30 minutes) BS 5839-1:2017 (Clause 26.2d Standard)

FIRE GUARD 1000

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 50200	BS 5839-1	LPCB Ref. No.
FIRE GUARD 1000	1.5	2, 3, 4 & 5	F2	PH60 + Annex E	Clause 26.2d	1290a/01
FIRE GUARD 1000	2.5	2, 3, 4 & 5	F2	PH60 + Annex E	Clause 26.2d	1290a/01
FIRE GUARD 1000	4.0	2, 3, 4 & 5	F2	PH60 + Annex E	Clause 26.2d	1290a/01
FIRE GUARD 1000	6.0	2, 3, 4 & 5	F2	-	-	1290a/01
FIRE GUARD 1000	10	2, 3, 4 & 5	F2	-	-	1290a/01
FIRE GUARD 1000	16	2, 3, 4 & 5	F2	-	-	1290a/01

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Certificate No: 1285a to BS 7846:2015 (Category F2 & F120)

FIRE GUARD 1000 PLUS

Product Name	Nominal csa of conductor (mm²)of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
FIRE GUARD 1000 PLUS	25	2, 3, 4 & 5	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	35	2, 3, 4 & 5	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	50	2, 3, 4 & 5	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	70	2, 3, 4 & 5	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	95	2, 3 & 4	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	120	2, 3 & 4	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	150	2, 3 & 4	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	185	2, 3 & 4	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	240	2, 3 & 4	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	300	2, 3 & 4	F2 & F120	1285a/01
FIRE GUARD 1000 PLUS	400	2, 3 & 4	F2 & F120	1285a/01

Certificate No: 1285c to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 60754-1:2014 EN 61034-2:2005+A2:2020

Fire Guard 100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	IEC 60331-21	LPCB Ref. No.
Fire Guard 100	25	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	35	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	50	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	70	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	95	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	120	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	150	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	185	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	240	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	300	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	400	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	500	One	C	>60%	0.5% HCl	(90+15) minutes	1285c/01
Fire Guard 100	630	One	-	>60%	0.5% HCl	(90+15) minutes	1285c/01

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Certificate No: 1716a to BS 7846:2015 (Category F2 & F120)

Fire Guard 1000 Plus

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
Fire Guard 1000 Plus	10	2, 3, 4 & 5	F2 & F120	1716a/01
Fire Guard 1000 Plus	16	2, 3, 4 & 5	F2 & F120	1716a/01
Fire Guard 1000 Plus	25	2, 3, 4 & 5	F2 & F120	1716a/01
Fire Guard 1000 Plus	35	2, 3, 4 & 5	F2 & F120	1716a/01
Fire Guard 1000 Plus	50	2, 3, 4 & 5	F2 & F120	1716a/01
Fire Guard 1000 Plus	70	2, 3, 4 & 5	F2 & F120	1716a/01
Fire Guard 1000 Plus	95	2, 3 & 4	F2 & F120	1716a/01
Fire Guard 1000 Plus	120	2, 3 & 4	F2 & F120	1716a/01
Fire Guard 1000 Plus	150	2, 3 & 4	F2 & F120	1716a/01
Fire Guard 1000 Plus	185	2, 3 & 4	F2 & F120	1716a/01
Fire Guard 1000 Plus	240	2, 3 & 4	F2 & F120	1716a/01
Fire Guard 1000 Plus	300	2, 3 & 4	F2 & F120	1716a/01
Fire Guard 1000 Plus	400	2, 3 & 4	F2 & F120	1716a/01

Certificate No: 1716b to BS 8592:2016

Fire Guard 100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8592	LPCB Ref. No.
Fire Guard 100	10	one	Complies	1716b/01
Fire Guard 100	16	one	Complies	1716b/01
Fire Guard 100	25	one	Complies	1716b/01
Fire Guard 100	35	one	Complies	1716b/01
Fire Guard 100	50	one	Complies	1716b/01
Fire Guard 100	70	one	Complies	1716b/01

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Certificate No: 1469a to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

ERVITAL FIRE SAFE GOLD CABLE

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	EN 60754-2	EN 60332-3-22	LPCB Ref. No.
ERVITAL FIRE SAFE GOLD CABLE	1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a/01
ERVITAL FIRE SAFE GOLD CABLE	1.5	2,3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a/01
ERVITAL FIRE SAFE GOLD CABLE	2.5	2,3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a/01
ERVITAL FIRE SAFE GOLD CABLE	4.0	2,3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a/01

Certificate No: 1469b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60332-3-24:2009

ERVITAL FIRE SAFE CABLE

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 60754-1	EN 60754-2	IEC 60332-3-24	LPCB Ref. No.
ERVITAL FIRE SAFE CABLE	1.0	2	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1469b/01
ERVITAL FIRE SAFE CABLE	1.5	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1469b/01
ERVITAL FIRE SAFE CABLE	2.5	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1469b/01

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Certificate No: 1693b to BS 7846:2015 (Category F2)

FEDCAB Fire Safe Electric Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
FEDCAB FIRESMART ELECTRIC CABLE	1.5	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	2.5	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	4.0	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	6.0	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	10	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	16	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	25	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	35	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	50	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	70	2, 3 & 4	F2	1693b/01

FEDCAB FIRESMART ELECTRIC CABLE	95	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	120	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	150	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	185	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	240	2, 3 & 4	F2	1693b/01
FEDCAB FIRESMART ELECTRIC CABLE	300	2, 3 & 4	F2	1693b/01

Uo/U 600/1000V

Notes:

Stranded conductors only.
In meeting the requirements to BS 7846:2015 Category F2, the FEDCAB FIRE SMART ELECTRIC CABLE listed met the fire resistance requirements of BS 6387:2013 Categories CWZ, achieved more than 70% smoke density when tested in accordance with EN 61034-2:2005, and achieved less than 0.5%HCl for the insulation tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1.

Certificate No: 1693c to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 60754-1:2014 EN 61034-2:2005+A2:2020 EN 60332-1-2:2004+A11:2016

FEDCAB Fire Safe Electric Cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	IEC 60331-21	LPCB Ref. No.
FEDCAB FIRE SMART SC ELECTRIC CABLE	1.5	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	2.5	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	4.0	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	6.0	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	10	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	16	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	25	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	35	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	50	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	70	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	95	One	C	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	120	One	C	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	150	One	C	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	185	One	C	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	240	One	C	>60%	0.5% HCl	(120+15) minutes	1693c/01
FEDCAB FIRE SMART SC ELECTRIC CABLE	300	One	C	>60%	0.5% HCl	(120+15) minutes	1693c/01

Uo/U 600/1000V
Notes:
Stranded conductor only.
Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit.
Either one or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.
The cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 950°C for a duration of 120 minutes + 15 minutes cool down, at voltage rating of 600V.
The cables also met the requirement of EN 60332-1-2:2004+A11:2016.

Fireguard Global Ltd.

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Certificate No: 1788a to BS 6387:2013 (Category CWZ), EN 50200-2015 (Class PH120), EN 61034-2:2005+A1:2013, EN 60754-1:2014, EN 60754-2:2014, IEC 60332-3-24:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60332-3-24	LPCB Ref. No.
Fireguard FG FRC 180	1.0(1)	2	C, W, Z	PH120	<0.5% HCl	Complies	> 60%	Complies	1788a/01
Fireguard FG FRC 180	1.5(2)	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	> 60%	Complies	1788a/01
Fireguard FG FRC 180	2.5(2)	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	> 60%	Complies	1788a/01

Uo/U 300/500V

Notes:

Solid conductor only.

2. Solid & Stranded conductors

Giza Cable Industries

Fourth Industrial Zone, Plot 48, 6th of October City, Giza, Governorate, Egypt

Tel: +(2010) 22188899

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Other

HQ, 6 Ibn Malek St, Nahda Sq, Giza, 184, Egypt

Certificate No: 1676a to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

Cu/Mica/LSHF cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
Cu/Mica/LSHF cables	1.5	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	2.5	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	4.0	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	6.0	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	10	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	16	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	25	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	35	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	50	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	70	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	95	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	120	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	150	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	185	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	240	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	300	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	400	One	C	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	500	One	-	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	630	One	-	<0.5% HCl	>60%	(120+15) minutes	1676a/01
Cu/Mica/LSHF cables	800	One	-	<0.5% HCl	>60%	(120+15) minutes	1676a/01

Other

HQ, 6 Ibn Malek St, Nahda Sq, Giza, 184, Egypt

Certificate No: 1676b to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

Cu/Mica/XLPE/LSHF cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
Cu/Mica/XLPE/LSHF cables	1.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	2.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	2.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	3.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	4.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	6.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	10	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	16	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	25	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	35	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	50	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	70	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	95	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	120	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01

Cu/Mica/XLPE/LSHF cables	150	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	185	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	240	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	300	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	400	One	C	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	500	One	-	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	630	One	-	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
Cu/Mica/XLPE/LSHF cables	800	One	-	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01

Other
HQ, 6 Ibn Malek St, Nahda Sq, Giza, 184, Egypt

Certificate No: 1676c to IEC 60331-21:1999 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 EN 60332-3-24:2009

Cu/Mica/XLPE/AWA/LSHF cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
Cu/Mica/XLPE/AWA/LSHF cables	16	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	25	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	35	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	50	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	70	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	95	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	120	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	150	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	185	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	240	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	300	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	400	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	500	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	630	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
Cu/Mica/XLPE/AWA/LSHF cables	800	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01

Other
HQ, 6 Ibn Malek St, Nahda Sq, Giza, 184, Egypt

Certificate No: 1676d to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 EN 60332-3-24:2009

Cu/Mica/XLPE/LSHF Multicore Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
Cu/Mica/XLPE/LSHF Multicore Cable	1.5	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	2.5	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	4.0	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	6.0	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	10	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	16	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	25	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	35	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	50	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	70	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	95	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	120	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	150	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	185	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	240	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	300	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
Cu/Mica/XLPE/LSHF Multicore Cable	400	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01

Other
HQ, 6 Ibn Malek St, Nahda Sq, Giza, 184, Egypt

Certificate No: 1676e to BS 6387:2013 (Category CWZ) BS 8491:2008 (120 minutes) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 EN 60332-1-2:2004+A11:2016 EN 60332-3-24:2009

Cu/Mica/XLPE/SWA/LSHF Multicore Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	BS 8491	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	1.5	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	2.5	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	4.0	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	6.0	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	10	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	16	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	25	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	35	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	50	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	70	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	95	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	120	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	150	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	185	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	240	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01
Cu/Mica/XLPE/SWA/LSHF Multicore Cable	300	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	1676e/01

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Certificate No: 1661a to BS 7846:2015 Category F2 & F120 EN 50200:2015 Class PH120 EN 50200:2015 Annex E IEC 60331-21:1999 BS 8519:2010 Clause 11 Category 3 BS 5839-1:2017 (Clause 26.2d) BS 6387:2013 Category CWZ

GC Fire 2A Super

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 50200	EN 50200 Annex E	BS 8519	IEC 60331-21	BS 5839-1 (Clause 26.2d)	LPCB Ref. No.
GC Fire 2A Super	1.5	2, 3 & 4	F2	PH120	Annex E	-	(180+15) minutes	Standard	1661a/01
GC Fire 2A Super	2.5	2, 3 & 4	F2	PH120	Annex E	-	(180+15) minutes	Standard	1661a/01
GC Fire 2A Super	4.0	2, 3 & 4	F2	PH120	Annex E	-	(180+15) minutes	Standard	1661a/01
GC Fire 2A Super	6.0	2 & 3	F2	PH120	Annex E	-	(180+15) minutes	Standard	1661a/01
GC Fire 2A Super	6.0	4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	10	2	F2	PH120	Annex E	-	(180+15) minutes	Standard	1661a/01
GC Fire 2A Super	10	3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	16	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	25	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	35	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01

GC Fire 2A Super	50	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	70	2 ,3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	95	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	120	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	150	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	185	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	240	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	300	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01
GC Fire 2A Super	400	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	1661a/01

Havells India Limited

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Other
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Email: Abhinav.saxena@havells.com

Certificate No: 1743a to BS 6387:2013 CWZ EN 61034-2:2005 & A2:2020 EN 60754-1:2014 BS EN 60332-3-24:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
Fire Safe	1.5	2,3,4,5,7,12,19,27 & 37	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	2.5	2,3,4,5,7,12,19,27 & 37	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	4.0	2,3,4,5,7,12,19,27 & 37	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	6.0	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	10	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	16	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	25	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	35	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	50	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	70	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	95	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	120	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	150	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	185	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	240	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	300	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01
Fire Safe	400	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	1743a/01

Other
Corporate Office - QRG Towers, 2D Sec 126, Express Way Noida, Uttar Pradesh, 201304, India
Email: Abhinav.saxena@havells.com

Certificate No: 1743b to BS 8491:2008 BS 6387:2013 CWZ EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-3-24:2009

Fire Resistant Cable

Product Name	Nominal csa ofconductor (mm²)	Core Construction	BS 8491	BS 6387	EN 60754-1	EN 60134-2	EN 60332-3-24	LPCB Ref. No.
Fire Safe Plus	16	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	25	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	35	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	50	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	70	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	95	2, 3 & 4	120 Minutes	CWZ	<05.% HCl	>60%	Complies	1743b/01
Fire Safe Plus	120	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	150	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	185	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	240	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	300	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01
Fire Safe Plus	400	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01

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Certificate No: 1168a to BS 6387:2013 (Category CWZ), EN 61034-2:2005+A2:2020, EN 60754-1:2014, EN 50200:2015 (Class PH120), EN 50200:2015 Annex E

ITALCOND/ITALFIRE - Fire Resistant

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
ITALCOND/ITALFIRE - Fire Resistant	1.5	2	CWZ	<0.5% HCl	>60%	PH120	30 mins	1168a/01
ITALCOND/ITALFIRE - Fire Resistant	2.5	2	CWZ	<0.5% HCl	>60%	PH120	30 mins	1168a/01
ITALCOND/ITALFIRE - Fire Resistant	1.5	3, 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	1168a/01

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Certificate No: 1538a to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FireX100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
FireX100	1.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	2.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	4.0	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	6.0	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	10	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	16	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	25	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	35	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	50	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	70	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	95	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
FireX100	120	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	150	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	185	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	240	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	300	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	400	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	500	One	C	<0.5% HCl	>60%	Complies	1538a/01
FireX100	630	One	-	<0.5% HCl	>60%	Complies	1538a/01

Certificate No: 1538b to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FireX200 (Unarmoured)

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
FireX200 (Unarmoured)	1.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	2.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	4.0	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	6.0	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	10	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	16	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	25	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	35	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	50	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	70	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	95	One	C	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	120	One	C	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	150	One	C	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	185	One	C	<0.5% HCl	>60%	Complies	1538b/01

FireX200 (Unarmoured)	240	One	C	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	300	One	C	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	400	One	C	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	500	One	-	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	630	One	-	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	800	One	-	<0.5% HCl	>60%	Complies	1538b/01
FireX200 (Unarmoured)	1000	One	-	<0.5% HCl	>60%	Complies	1538b/01

Certificate No: 1538c to EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

FireX200 (Armoured)

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
FireX200 (Armoured)	1.5	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	2.5	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	4.0	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	6.0	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	10	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	16	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	25	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	35	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	50	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	70	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	95	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	120	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	150	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	185	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	240	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	300	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	400	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	500	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	630	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	800	One	Complies	>60%	<0.5% HCl	1538c/01
FireX200 (Armoured)	1000	One	Complies	>60%	<0.5% HCl	1538c/01

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Certificate No: 1820a to BS 7846:2015 (Category F2 & F120) , IEC 60331-21:1999

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2) (See note 1)	Core Construction	BS 7846 (See note 2)	IEC 60331-21	LPCB Ref. No.
Hengtong Electric Cable	25	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	16	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	10	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	35	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	50	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	70	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	95	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	120	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	150	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	240	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	300	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	185	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a
Hengtong Electric Cable	400	2, 3 & 4	F2 & F120	(90+15) Minutes	1820a

Uo/U 600/1000V Notes:
1. Stranded conductors only.
2. In meeting the requirements for BS 7846:2015 Category F2 & F120, the Hengtong Electric Cables listed met the fire resistance requirements of BS 6387:2013 Categories CWZ and BS 8491, achieved more than 70% smoke density when tested in accordance with EN 61034-2:2005 and achieved less than 0.5%HCl for the insulation, tapes, bedding & outer covering when tested in accordance with EN 60754-1:2014.
3. The Hengtong Electric Cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°C for a duration of 90 minutes + 15 minutes cool down, at a voltage rating of 600/1000V.

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Certificate No: 1741a to BS 7846:2015 Cat F2 IEC 60331-21:1999

KEI ELECTRIC CABLE

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	IEC 60331-21	LPCB Ref. No.
KEI ELECTRIC CABLE	1.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	2.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	4.0	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	6.0	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	10	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	16	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	25	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	35	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	50	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	70	2, 3, 4 & 5	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	95	2, 3 & 4	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	120	2, 3 & 4	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	150	2, 3 & 4	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	185	2, 3 & 4	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	300	2, 3 & 4	F2	(180+15) minutes	1741a/01
KEI ELECTRIC CABLE	400	2, 3 & 4	F2	(180+15) minutes	1741a/01

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Certificate No: 663b to BS 6387: 2013 (Category CWZ) EN 50200:2015 (Class PH120+Annex E) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

KEYSTONE FR 7211 Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 50200	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	LPCB Ref. No.
KEYSTONE FR 7211 Cable	1.5	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	2.5	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	4.0	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	6.0	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	10	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	16	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	25	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	35	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	50	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	70	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	95	One	CWZ	-	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	120	One	C	-	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	150	One	C	-	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	185	One	C	-	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	240	One	C	-	<0.5% HCl	Complies	>60%	Complies	663b/01
KEYSTONE FR 7211 Cable	300	One	C	-	<0.5% HCl	Complies	>60%	Complies	663b/01

Certificate No: 663c to BS 7846: 2015 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 60754-2:2014

KEYSTONE Fire Resistance Armoured Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 50200	EN 50200	EN 60754-2	LPCB Ref. No.
KEYSTONE Fire Resistant Armoured Cable	1.5	2, 3 & 4	F2	PH120	Annex E	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	2.5	2, 3 & 4	F2	PH120	Annex E	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	4.0	2, 3 & 4	F2	PH120	Annex E	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	6.0	2, 3 & 4	F2	PH120	Annex E	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	10	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	16	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	25	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	35	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	50	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	70	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	95	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	120	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	150	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	185	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	240	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	300	2, 3 & 4	F2	-	-	Complies	663c/01
KEYSTONE Fire Resistant Armoured Cable	400	2, 3 & 4	F2	-	-	Complies	663c/01

Certificate No: 663d to BS 7846:2015 F2 and F120 BS 8491:2008

KEYSTONE Enhanced Fire Resistance Armoured Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8491	LPCB Ref. No.
KEYSTONE Enhanced Fire Resistance Armoured Cable	4.0	3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	6.0	3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	10	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	16	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	25	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	35	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	50	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	70	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	95	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	120	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	150	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	185	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	240	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	300	2, 3 & 4	F2 & F120	120 Min	663d/01
KEYSTONE Enhanced Fire Resistance Armoured Cable	400	2, 3 & 4	F2 & F120	120 Min	663d/01

Certificate No: 663e to BS 6387:2013 Category (CWZ) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004+A11:2016

KEYSTONE FS1000

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
KEYSTONE FS1000	10	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	16	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	25	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	35	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	50	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	70	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	95	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	120	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	150	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	185	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01

KEYSTONE FS1000	240	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	300	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	400	One	C	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	500	One	-	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	630	One	-	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	800	One	-	(90+15) minutes	>60%	<0.5% HCl	663e/01
KEYSTONE FS1000	1000	One	-	(90+15) minutes	>60%	<0.5% HCl	663e/01

Certificate No: 663f to BS 7846:2015 Cat F2 & F120 EN 60754-2:2014

KEYSTONE Enhanced Fire Resistance Armoured Auxiliary Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 60754-2	LPCB Ref. No.
KEYSTONE Enhanced Fire Resistance Armoured Auxiliary Cable	1.5	7, 8, 10, 12, 19, 27 & 37	F2 & F120	Complies	663f/01
KEYSTONE Enhanced Fire Resistance Armoured Auxiliary Cable	2.5	7, 8, 10, 12, 19, 27, & 37	F2 & F120	Complies	663f/01
KEYSTONE Enhanced Fire Resistance Armoured Auxiliary Cable	4.0	7, 8, 10, 12, 19, 27 & 37	F2 & F120	Complies	663f/01

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Certificate No: 427a to BS 6387:2013 CWZ EN 60702-1:2002+A1:2015

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60702-1	LPCB Ref. No.
MICO - KME Light Duty Mineral Insulated Cables	1.0	2.3, 4 & 7	C, W, Z	Complies	427a/01
MICO - KME Light Duty Mineral Insulated Cables	1.5	2.3, 4 & 7	C, W, Z	Complies	427a/01
MICO - KME Light Duty Mineral Insulated Cables	2.5	2.3, 4 & 7	C, W, Z	Complies	427a/01
MICO - KME Light Duty Mineral Insulated Cables	4.0	2	C, W, Z	Complies	427a/01
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	1.5	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	2.5	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	4.0	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	6.0	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	10	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	16	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	25	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	35	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	50	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	70	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	95	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	120	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	150	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	185	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	240	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	300	One	C, W, Z	Complies	427a/02
MICO - KME Single Core Heavy Duty Mineral Insulated Cables	400	One	C, W, Z	Complies	427a/02
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	1.5	2, 3, 4, 7, 12 & 19	C, W, Z	Complies	427a/03
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	2.5	2, 3, 4, 7 & 12	C, W, Z	Complies	427a/03
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	4.0	2, 3 & 4	C, W, Z	Complies	427a/03
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	6.0	2, 3 & 4	C, W, Z	Complies	427a/03
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	10	2, 3 & 4	C, W, Z	Complies	427a/03
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	16	2, 3 & 4	C, W, Z	Complies	427a/03
MICO - KME Multi-Core Heavy Duty Mineral Insulated Cables	25	2, 3 & 4	C, W, Z	Complies	427a/03

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Certificate No: 1690a to BS 8592:2016 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

Zyrad 950-STR

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8592	BS 6387	BS 50200	BS 8434-2	IEC 60331-21	LPCB Ref. No.
Zyrad 950-STR	1.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	2.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	4.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	6.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	10	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	16	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	25	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	35	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	50	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
Zyrad 950-STR	70	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01

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Certificate No: 1614b to IEC 60331-21:1999 IEC 61034-2:2005+A2:2020 IEC 60754-1:2011

MAX-FOH

Product Name	Nominal csa of conductor (mm²)	Core Conctruction	IEC 60331-21	IEC 60754-1	IEC 61034-2	LPCB Ref. No.
MAX-FOH	50	1	(90+15) minutes	<0.5% HCl	>60%	1614b/01
MAX-FOH	70	1	(90+15) minutes	<0.5% HCl	>60%	1614b/01
MAX-FOH	95	1	(90+15) minutes	<0.5% HCl	>60%	1614b/01
MAX-FOH	120	1	(90+15) minutes	<0.5% HCl	>60%	1614b/01

Certificate No: 1614c to IEC 60331-21:1999 IEC 61034-2:2005+A2:2019 IEC 60754-1:2011

MAX-FOH (i)

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	IEC 60754-1	EN 61034-2	LPCB Ref. No.
MAX-FOH (i)	2.5	1	(90+15) minutes	<0.5% HCl	>60%	1614c/01

Certificate No: 1614d to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 IEC 61034-2:2005+A2:2019 EN 60332-1-2:2004 + A11:2016 IEC 60754-1:2011 IEC 60754-2:2011 IEC 60332-3-22:2009 IEC 60332-3-23:2009 IEC 60332-3-24:2009

MAX-FOH-OSCR

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	IEC 60331-21	IEC 61034-2	IEC 60754-1	IEC 60754-2	IEC 60332-3-22	IEC 60332-3-23	IEC 60332-3-24	LPCB Ref. No.
MAX-FOH-OSCR	1.5	1 pair	C,W,Z	(90+15) Minutes	>60%	<0.5% HCl	Complies	Complies	Complies	Complies	1614d/01
MAX-FOH-OSCR	2.5	1 pair	C,W,Z	(90+15) Minutes	>60%	<0.5% HCl	Complies	Complies	Complies	Complies	1614d/01

MICC (Shanghai) Electric Co Ltd

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Tel: 0086 21 5169 1990
E-mail: sales@miccgroup.com • Website: www.miccgroup.com

Certificate No: 1035a to EN 60702-1:2002 BS 6387:2013 (Category CWZ) EN 50267-2-1:1999 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 BS 5839-1:2013 (Clause 26.2e Enhanced)

Mineral Insulated Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 50267-2-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
MICC Wiring Cable (Light Duty)	1.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Light Duty)	2.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Light Duty)	4.0	2	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	1.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable	2.5	One, 2, 3, 4 & 7	Complies	C,	<0.5%	Class	120mm	Enhanced	1035a/01

(Heavy Duty)				W, Z	HCl	PH120			
MICC Wiring Cable (Heavy Duty)	4.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	6.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	10	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	16	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	25	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	35	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	50	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	70	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	95	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	120	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1035a/01
MICC Wiring Cable (Heavy Duty)	150	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1035a/01
MICC Wiring Cable (Heavy Duty)	185	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1035a/01
MICC Wiring Cable (Heavy Duty)	240	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1035a/01
MICC Wiring Cable (Heavy Duty)	300	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1035a/01
MICC Wiring Cable (Heavy Duty)	400	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1035a/01

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Certificate No: 1790a to BS 6387:2013 (Category CWZ) EN 50200:2015 (PH120) IEC 60331-21:1999 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 EN 60332-1-2:2004+A11:2016

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2) see note 1	Core Construction	BS 6387	EN 50200	IEC 60331-21 see note 2	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
MESC PYRO FP 200	1.0	2, 3 & 4	C,W,Z	PH120	(180+15) minutes	>60%	<0.5% HCl	Complies	1790a/01
MESC PYRO FP 200	2.5	2, 3 & 4	C,W,Z	PH120	(180+15) minutes	>60%	<0.5% HCl	Complies	1790a/01
MESC PYRO FP 200	1.5	2, 3 & 4	C,W,Z	PH120	(180+15) minutes	>60%	<0.5% HCl	Complies	1790a/01
MESC PYRO FP 200	4.0	2, 3 & 4	C,W,Z	PH120	(180+15) minutes	>60%	<0.5% HCl	Complies	1790a/01

Uo/U 300/500V

Notes:

Solid and Stranded conductor only.

The MESC PYRO FP 200 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750^{o}C, for a duration of 180 + 15 minutes cool down at voltage of 300/500V.

The MESC PYRO FP 200 cables listed also met the requirements of EN 60332-1-2:2004+A11:2016

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Certificate No: 1039a to EN 60702-1:2002, BS 6387:2013 (category C,W,Z), EN 50267-2-1:1999, EN 50200:2006, BS 8434-2:2003+A2:2009 and BS 5839-1:2013 Clause 26.2e

MICC Wiring Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 50267-2-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.

MICC Wiring Cable (Light Duty)	1.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Light Duty)	2.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Light Duty)	4.0	2	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	1.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	2.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	4.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	6.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	10	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	16	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	25	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	35	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	50	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	70	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	95	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	120	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
MICC Wiring Cable (Heavy Duty)	150	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1039a/01
MICC Wiring Cable (Heavy Duty)	185	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1039a/01
MICC Wiring Cable (Heavy Duty)	240	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1039a/01
MICC Wiring Cable (Heavy Duty)	300	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1039a/01
MICC Wiring Cable (Heavy Duty)	400	One	Complies	C, W, Z	<0.5% HCl	-	-	-	1039a/01

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Certificate No: 1246a to BS 7846:2015 Cat F2

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
NCI-FP4	1.5	2, 3 & 4	F2	1246a/01
NCI-FP4	2.5	2, 3 & 4	F2	1246a/01
NCI-FP4	4	2, 3 & 4	F2	1246a/01
NCI-FP4	6	2, 3 & 4	F2	1246a/01
NCI-FP4	10	2, 3 & 4	F2	1246a/01
NCI-FP4	16	2, 3 & 4	F2	1246a/01
NCI-FP4	25	2, 3 & 4	F2	1246a/01
NCI-FP4	35	2, 3 & 4	F2	1246a/01
NCI-FP4	50	2, 3 & 4	F2	1246a/01
NCI-FP4	70	2, 3 & 4	F2	1246a/01
NCI-FP4	95	2, 3 & 4	F2	1246a/01
NCI-FP4	120	2, 3 & 4	F2	1246a/01
NCI-FP4	150	2, 3 & 4	F2	1246a/01
NCI-FP4	185	2, 3 & 4	F2	1246a/01
NCI-FP4	240	2, 3 & 4	F2	1246a/01
NCI-FP4	300	2, 3 & 4	F2	1246a/01
NCI-FP4	400	2, 3 & 4	F2	1246a/01

Certificate No: 1246b to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005 + A2:2020 IEC 60331-21:1999

NCI-FP1

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
NCI-FP1	1.5	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	2.5	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01

NCI-FP1	4.0	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	6.0	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	10	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	16	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	25	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	35	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	50	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	70	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	95	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	120	One	C	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	150	One	C	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	185	One	C	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	240	One	C	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	300	One	C	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	400	One	C	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	500	One	-	<0.5% HCl	>60%	(90+15) minutes	1246b/01
NCI-FP1	630	One	-	<0.5% HCl	>60%	(90+15) minutes	1246b/01

Certificate No: 1246c to BS 6387:2013 (Category CWZ) EN 50200:2015 (PH120) BS 8434-2:2003+A1:2009 EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 60332-1-2:2004+A11:2016

NCI-FP2

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	BS 8434-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
NCI-FP2	1.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1246c/01
NCI-FP2	2.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1246c/01
NCI-FP2	4.0	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1246c/01

Certificate No: 1246d to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 60754-1:2014 EN 61034-2:2005+A1:2013

NCI-FP3

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	BS 8434-2	EN 50200	EN 60754-1	LPCB Ref. No.
NCI-FP3	1.5	2, 3 & 4	Enhanced 120	CWZ	120 mins	PH120	<0.5% HCl	1246d/01
NCI-FP3	2.5	2, 3 & 4	Enhanced 120	CWZ	120 mins	PH120	<0.5% HCl	1246d/01
NCI-FP3	4.0	2, 3 & 4	Enhanced 120	CWZ	120 mins	PH120	<0.5% HCl	1246d/01

Certificate No: 1246e to BS 7846: 2015 Cat F2 & F120

NCI-FP6

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
NCI-FP6	16	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	25	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	35	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	50	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	70	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	95	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	120	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	150	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	185	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	240	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	300	2, 3 & 4	F2 & F120	1246e/01
NCI-FP6	400	2, 3 & 4	F2 & F120	1246e/01

Certificate No: 1246f to IEC 60331-21:1999 IEC 61034-2:2005+A2:2020 IEC 60754-1:2014

NCI-FP5

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
NCI-FP5	95	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	120	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	150	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	185	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	240	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	300	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	400	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	500	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
NCI-FP5	630	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01

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Certificate No: 1518a to BS 6387:2013 (Category CWZ) BS 8491:2008 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 EN 60332-3-24:2009

NF 1000

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	BS 8491	EN 61034-2	EN 60754-1	EN 60754-2	EN 60332-3-24	IEC 60331-21	LPCB Ref. No.
NF 1000	16	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	25	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	35	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	50	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	70	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	95	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	120	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	150	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	185	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	240	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	300	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	400	2 & 3	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
NF 1000	400	4	CWZ	120 mins	>60%	<0.5% HCl	Complies	Complies	Complies	1518a/01

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Certificate No: 946a to BS 7846: 2015 (Category F2) EN 50200:2015 PH120

NX 400

Product Name	Nominal csa of conductor (mm²) See note 1	Core Construction	BS 7846 See note 2	EN 50200	LPCB Ref. No.
NX 400	1.5	2,3 & 4	F2	PH120	946a/01
NX 400	1.5	5,7,12,19,27 & 37	F2	-	946a/01
NX 400	2.5	2,3 & 4	F2	PH120	946a/01
NX 400	2.5	5,7,12,19,27 & 37	F2	-	946a/01
NX 400	4.0	2,3 & 4	F2	PH120	946a/01
NX 400	4.0	5,7,12,19,27 & 37	F2	-	946a/01
NX 400	6.0	2, 3 & 4	F2	PH120	946a/01
NX 400	6.0	5	F2	-	946a/01
NX 400	10	2,3,4 & 5	F2	-	946a/01
NX 400	16	2,3,4 & 5	F2	-	946a/01
NX 400	25	2,3,4 & 5	F2	-	946a/01
NX 400	35	2,3,4 & 5	F2	-	946a/01
NX 400	50	2,3,4 & 5	F2	-	946a/01
NX 400	70	2,3,4 & 5	F2	-	946a/01
NX 400	95	2,3 & 4	F2	-	946a/01
NX 400	120	2,3 & 4	F2	-	946a/01
NX 400	150	2, 3 & 4	F2	-	946a/01
NX 400	185	2,3 & 4	F2	-	946a/01
NX 400	240	2,3 & 4	F2	-	946a/01
NX 400	300	2,3 & 4	F2	-	946a/01
NX 400	400	2,3 & 4	F2	-	946a/01

Notes:
Stranded conductor only.
In meeting the requirements of BS 7846:2015 Category F2, the NX 400 cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, the fire resistance requirements of BS 6387:2013 Category CWZ (cables with a diameter greater than 20mm tested with the additional provisions given in BS 7846:2015 Annex I) and achieved less than 0.5%HCl for the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Certificate No: 946b to BS 8592:2016 BS 6387:2013 CWZ EN 50200:2015 PH120 EN 50200:2015 Annex E BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

NX 100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8592	BS 6387	EN 50200	BS 8434-2	EN 60754-2	EN 61034-2	IEC 60331-21	LPCB Ref. No.
NX 100	1.5	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	2.5	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	4.0	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	6.0	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	10	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	16	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	25	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	35	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	50	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	70	One	Complies	C, W, Z	PH120 Annex E	120 minutes	Complies	>60%	Complies	946b/01
NX 100	95	One	-	C, W, Z	PH120 Annex E	-	Complies	>60%	Complies	946b/01
NX 100	120	One	-	C	-	-	Complies	>60%	Complies	946b/01
NX 100	150	One	-	C	-	-	Complies	>60%	Complies	946b/01
NX 100	185	One	-	C	-	-	Complies	>60%	Complies	946b/01
NX 100	240	One	-	C	-	-	Complies	>60%	Complies	946b/01
NX 100	300	One	-	C	-	-	Complies	>60%	Complies	946b/01

Uo/U 450/750V
Notes:
Stranded conductor only.
Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
When testing to BS 6387:2013, for categories CWZ, testing was conducted using a 20mm or 38mm stainless conduit. Either on or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.
Standards EN 50200 & BS 8434-2 do not recognise cables in conduit. However, in order to test to the methodologies given in EN 50200 & BS 8434-2 required by specific regions, testing was conducted using a 20mm steel conduit.
The duration of 30 minutes when tested in accordance with EN 50200: 2015 Annex E is achieved by 15 minutes for the fire and mechanic shock phase and a further 15 minutes for the fire mechanic shock and water phase.
The NX 100 Cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750^{o}C for a duration of 90minutes + 15minutes cool down, at a voltage rating of 450V.

Certificate No: 946c to BS 6387:2013 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-23:2009 EN 60332-3-24:2009 EN 50200:2006 (Class PH120) IEC 60331-21:1999

NX300

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	EN 60754-2	EN 60332-3-24	EN 60331-21	EN 50200	EN 60332-3-23	LPCB Ref. No.
NX300 Single-Core	1.5	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	2.5	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	4.0	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	6.0	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	10	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	16	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	25	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	35	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
NX300 Single-Core	50	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	70	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	95	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	120	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	150	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300	185	One	C	>60%	<0.5%	Complies	Complies	Complies	-	-	946c/01

Single-Core					HCl						
NX300 Single-Core	240	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	300	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	400	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	500	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	630	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	800	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Single-Core	1000	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	946c/01
NX300 Multi-Core	1.5	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	946c/02
NX300 Multi-Core	2.5	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	946c/02
NX300 Multi-Core	4.0	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	946c/02
NX300 Multi-Core	6.0	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	946c/02
NX300 Multi-Core	10	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	16	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	25	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	35	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	50	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	70	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	95	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	120	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	150	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	185	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	240	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	300	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02
NX300 Multi-Core	400	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	946c/02

Uo/U 600/1000V
Notes:
Stranded conductor only.
The NX300 Single-Core cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 800°C for a duration of 180minutes at a voltage rating of 600V.
The NX300 Single-Core cables listed also met the requirements of IEC 60332-1-2:2004
To satisfy the requirement of BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm stainless steel conduit as the other metallic element.
Where a single cable is fitted in conduit, only phase to earth voltage was applied

Certificate No: 946d to BS 7846:2015 (Category F2 & F120) EN 60754-2:2014 IEC 60331-21:1999 BS 8519:2010 (Clause 11 Category 3)

NX 600

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 60754-2	IEC 60331-21	BS 8519 Clause 11	LPCB Ref. No.
NX 600	4.0	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	6.0	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	10	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	16	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	25	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	35	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	50	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	70	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	95	2, 3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	120	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	150	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	185	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	240	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
NX 600	300	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01

NX 600	400	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01

Uo/U 600/1000V
Notes:
Stranded conductors only.
In meeting the requirements of BS 7846:2015 Category F2, the NX 600 cables met the requirements for smoke density to EN 61034-2:2005+A2:2020, fire resistance to BS 6387:2013 CWZ and achieved less than 0.5%HCl on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.
In meeting the requirements of BS 7846:2015 Category F120, the NX 600 cables listed met the requirements for 120 minutes fire resistance to BS 8491:2008 and therefore BS 8519:2010 Category 3 for power cables.
The NX 600 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 950°C for a duration of 90minutes + 15minutes cool down, at a voltage rating of 600V.
Tested to general method given in EN 60754-2:2014.

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Certificate No: 1569a to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2e Enhanced), BS 8519:2010 Clause 11 (Category 3)

Minpor Fire Resistance Cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 3	BS 6387	BS 5839-1 See note 4	BS 8519 See note 5	LPCB Ref. No.
Minpor Fire Resistance Cable	1.0 See note 1	2	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1569a/01
Minpor Fire Resistance Cable	1.5 See note 1	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1569a/01
Minpor Fire Resistance Cable	2.5 See note 1	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1569a/01
Minpor Fire Resistance Cable	4.0 See note 2	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1569a/01

Uo/U 300/500V
Notes:
Solid conductors only.
Stranded conductors only.
In meeting the requirements of BS 7629-1:2015 Enhanced 120, the Minpor Fire Resistance Cable listed met the requirements for smoke density of EN 61034-2, achieved less than 0.5%HCl for the outer covering, insulation & tapes when tested in accordance with EN 60754-1.
The Minpor Fire Resistance Cable listed conform to BS 7629-1:2015 Enhanced 120, met Class PH120 when tested in accordance with EN 50200:2015 and met a duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2013.
The Minpor Fire Resistance Cable listed also met the requirements for a Category 3 control cables as described in clause 11 of BS 8519:2010

Certificate No: 1569c to EN 50200:2015 (Class PH120) EN 60754-1:2014 EN 61034-2:2005+A2:2020

Solorati Firemin 120

Product Name	Nominal csa of conductor (mm^2) See note 1	Core Construction (excluding drain wire and earth)	EN 50200	EN 60754-1	EN 61034-2	LPCB Ref. No.
Solorati Firemin 120 Shielded	0.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin 120 Shielded	0.75	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin 120 Shielded	1.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin 120 Shielded	1.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin 120 Shielded	2.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin 120 Shielded	4.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin 120 Shielded	6.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
Solorati Firemin120 Unshielded	0.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02
Solorati Firemin120 Unshielded	0.75	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02
Solorati Firemin120 Unshielded	1.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02
Solorati Firemin120 Unshielded	1.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02
Solorati Firemin120 Unshielded	2.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02

Solorati Firemin120 Unshielded	4.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02
Solorati Firemin120 Unshielded	6.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02

Uo/U 300/500V
Notes:
Class 5 conductors only.

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Certificate No: 1808a to BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (Category CWZ), EN 50200-2015 (Class PH120), BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-22:2009, EN 50200;2015 Annex E, EN 60754-2:2014

Fire Resistant cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 3	BS 6387	EN 50200	EN 50200 See note 4	BS 5839-1 See note 5	EN 60754-2	EN 60332-3-22	LPCB Ref. No.
PREMIUM FIRE RESISTANT CABLE	2.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1808a/01
PREMIUM FIRE RESISTANT CABLE	1.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1808a/01
PREMIUM FIRE RESISTANT CABLE	1.0(1)	2	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1808a/01
PREMIUM FIRE RESISTANT CABLE	4.0(1, 2)	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	Annex E	Clause 26.2d	Complies	Complies	1808a/01

Uo/U 300/500V
Notes:
Solid conductor only.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015 Standard 60, the PREMIUM FIRE RESISTANT CABLE listed met the requirements for smoke density to EN 61034-2:2005 and achieved less than 0.5%HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1 and in addition also met the fire resistance requirements in BS 6387:2013 Categories CWZ.
The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.
The PREMIUM FIRE RESISTANT CABLE listed conform to BS 7629-1:2015 Standard 60, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2d of BS 5839-1:2013.

Certificate No: 1808b to BS 6387:2013 (Category CWZ), EN 50200:2015 (Class PH120) , EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 60754-2:2014, IEC 60332-3-24:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 60754-1	EN 60754-2	IEC 60332-3-24	LPCB Ref. No.
FIRE RESISTANT SIGNAL CONTROL CABLE	1.0 (see note 1)	2	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1808b/01
FIRE RESISTANT SIGNAL CONTROL CABLE	1.5 (see note 2)	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1808b/01
FIRE RESISTANT SIGNAL CONTROL CABLE	2.5 (see note 2)	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1808b/01

Uo/U 300/500V
Notes:
1. Solid conductor only.
2. Solid & Stranded conductors only.

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Certificate No: 1341a to BS 7846:2015 Cat F2

FRC500 Cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
FRC500 Cables	1.5	2, 3 & 4	F2	1341a/01
FRC500 Cables	2.5	2, 3 & 4	F2	1341a/01
FRC500 Cables	4.0	2, 3 & 4	F2	1341a/01
FRC500 Cables	6.0	2, 3 & 4	F2	1341a/01
FRC500 Cables	10	2, 3 & 4	F2	1341a/01
FRC500 Cables	16	2, 3 & 4	F2	1341a/01
FRC500 Cables	25	2, 3 & 4	F2	1341a/01
FRC500 Cables	35	2, 3 & 4	F2	1341a/01
FRC500 Cables	50	2, 3 & 4	F2	1341a/01
FRC500 Cables	70	2, 3 & 4	F2	1341a/01
FRC500 Cables	95	2, 3 & 4	F2	1341a/01
FRC500 Cables	120	2, 3 & 4	F2	1341a/01
FRC500 Cables	150	2, 3 & 4	F2	1341a/01
FRC500 Cables	185	2, 3 & 4	F2	1341a/01
FRC500 Cables	240	2, 3 & 4	F2	1341a/01
FRC500 Cables	300	2, 3 & 4	F2	1341a/01
FRC500 Cables	400	2, 3 & 4	F2	1341a/01

Certificate No: 1341b to BS 7629-1:2015 Standard 60 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	EN 50200	BS 5839-1 Clause 26.2d	LPCB Ref. No.
Fire Resistant Screened Cables FRC 300	1.0	2	Standard 60	PH120	Standard	1341b/01
Fire Resistant Screened Cables FRC 300	1.5	2 & 3	Standard 60	PH120	Standard	1341b/01
Fire Resistant Screened Cables FRC 300	2.5	2 & 3	Standard 60	PH120	Standard	1341b/01

Certificate No: 1341c to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 61034-2:2005+A2:2020 EN 60754-1:2014

Product Name	Nominal csa of conductor (mm²)	Core Construction(excluding drain wire)	BS 6387	EN50200	EN50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
FRC 300A	1.0	2, 3 & 4	CWZ	PH 120	Annex E	>60%	<0.5% HCl	1341c/01
FRC 300A	1.5	2, 3 & 4	CWZ	PH 120	Annex E	>60%	<0.5% HCl	1341c/01
FRC 300A	2.5	2, 3 & 4	CWZ	PH 120	Annex E	>60%	<0.5% HCl	1341c/01

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Certificate No: 1122a to BS 6387: 2013, EN 60754-1:2014, EN 60754-2:2014, EN 61034-2: 2005+A1:2013, IEC 60331-21: 1999, IEC 60332-3-22: 2009, IEC 60332-3-23:2009 and IEC 60332-3-24: 2009

OCC-F6C01

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	IEC 60332-3-22	IEC 60332-3-23	EN 60332-3-24	LPCB Ref. No.
OCC-F6C01	1.5	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
OCC-F6C01	2.5	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
OCC-F6C01	4.0	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
OCC-F6C01	6.0	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
OCC-F6C01	16	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
OCC-F6C01	25	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
OCC-F6C01	35	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	Complies	1122a/01
OCC-F6C01	50	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	70	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	95	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01

OCC-F6C01	120	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	150	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	185	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	240	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	300	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	400	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	500	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	630	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122a/01
OCC-F6C01	10	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01

Certificate No: 1122b to BS 6387:2013 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-22:2009 IEC 60332-3-23:2009 IEC 60332-3-24:2009

FRMI-F6A01

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	IEc 60332-3-22	IEC 60332-3-23	IEC 60332-3-24	LPCB Ref. No.
FRMI-F6A01	16	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	Complies	1122b/01
FRMI-F6A01	25	One	CWZ	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	35	One	CWZ	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	50	One	CWZ	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	70	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	95	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	120	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	150	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	185	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	240	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	300	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	400	One	-	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	500	One	-	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01
FRMI-F6A01	630	One	-	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	1122b/01

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Certificate No: 995a to BS 7846:2015 Category F2

OCIFLAM-FSA

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
OCIFLAM-FSA	95	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	120	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	400	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	240	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	70	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	1.5	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	2.5	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	4.0	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	6.0	2, 3 & 4	F2	995a/01

OCIFLAM-FSA	10	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	16	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	25	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	35	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	50	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	70	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	95	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	120	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	150	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	185	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	240	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	300	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	400	2, 3 & 4	F2	995a/01
OCIFLAM-FSA	1.5	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	2.5	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	4.0	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	6.0	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	10	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	16	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	25	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	35	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	50	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	70	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	95	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	120	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	150	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	185	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	240	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	300	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	400	2, 3 & 4	F2	995a/02
OCIFLAM-FSA	25	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	10	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	16	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	6.0	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	1.5	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	185	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	35	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	2.5	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	4.0	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	50	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	300	2, 3 & 4	F2	995a/03
OCIFLAM-FSA	150	2, 3 & 4	F2	995a/03

Uo/U 600/1000V
Notes:
Stranded conductors only.
In meeting the requirements of BS 7846:2015 Category F2, the OCIFLAM-FSA cables met the requirements for smoke density to EN 61034-2:2005+A2:2020, fire resistance to BS 6387:2013 categories CWZ and achieved less than 0.5% HCl on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Certificate No: 995b to BS 6387:2013 Category (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60332-3-24:2009 IEC 60331-21:1999

OCIFLAM-FS1

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
OCIFLAM-FS1	1.5	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	2.5	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	4.0	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	6.0	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	10	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	16	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	25	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	35	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	50	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	70	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
OCIFLAM-FS1	95	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	120	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	150	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	185	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	240	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	300	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	400	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02
OCIFLAM-FS1	500	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02

OCIFLAM-FS1	630	One	-	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/02

Uo/U 600/1000 V
Notes:
1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit. Either one or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.
4. These cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750ºC and at a voltage rating of 600V.

Certificate No: 995c to BS 7846:2015 Category F2 & F120 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60331-21:1999

OCIFLAM1 PREMIUM and OCIFLAM2 PREMIUM

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 50200	EN 50200	IEC 60331-21	LPCB Ref. No.
OCIFLAM1 PREMIUM	1.5	2, 3 & 4	F2	PH120	Annex E	Complies	995c/01
OCIFLAM1 PREMIUM	2.5	2, 3 & 4	F2	PH120	Annex E	Complies	995c/01
OCIFLAM1 PREMIUM	4.0	2, 3 & 4	F2	PH120	Annex E	Complies	995c/01
OCIFLAM1 PREMIUM	6.0	2, 3 & 4	F2	PH120	Annex E	Complies	995c/01
OCIFLAM1 PREMIUM	10	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	16	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	25	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	35	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	50	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	70	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	95	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	120	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	150	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	185	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	240	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	300	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM1 PREMIUM	400	2, 3 & 4	F2	-	-	Complies	995c/01
OCIFLAM2 PREMIUM	10	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	16	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	25	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	35	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	50	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	70	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	95	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	120	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	150	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	185	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	240	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	300	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
OCIFLAM2 PREMIUM	400	2, 3 & 4	F2 & F120	-	-	Complies	995c/02

Certificate No: 995d to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 5839-1:2017 (Clause 26.2d Standard)

OCIFLAM X

Product Name	Nominal csa of conductor (mm²) See note 1	Core Construction	BS 7629-1 See note 2	BS 6387	EN 50200 See note 3	EN 50200 See note 3	BS 5839-1 See note 4	LPCB Ref. No.
OCIFLAM X	1.5	2	Standard 60	C, W, Z	PH 120	Annex E	Clause 26.2d	995d/01
OCIFLAM X	2.5	2	Standard 60	C, W, Z	PH 120	Annex E	Clause 26.2d	995d/01
OCIFLAM X	1.5	2	Standard 60	C, W, Z	PH120	Annex E	Clause 26.2d	995d/02
OCIFLAM X	2.5	2	Standard 60	C, W, Z	PH120	Annex E	Clause 26.2d	995d/02

Uo/U 300/500V
Notes:
Solid Conductor only.
In meeting the requirements of BS 7629-1:2015 Standard 60, the OCIFLAM X cables listed met the requirements for smoke density of EN 61034-2 and achieved less than 0.5%HCl for the outer sheath, layup tape & insulation when tested in accordance with EN 60754-1.
The OCIFLAM X cables listed met the fire resistance requirements for 120 minutes when tested in accordance with EN 50200:2015 PH120 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E.
The OCIFLAM X cables listed conform to BS 7629-1:2015 Standard 60 and hence met the requirements for the standard fire resistant cable as described in clause 26.2d of BS 5839-1:2017

Certificate No: 995e to BS 7846:2015 (Category F2)

PRYSMIAN (O) FP400

Product Name	Nominal csa of conductor (mm²) See note 1	Core Construction	BS 7846 See note 2	LPCB Ref. No.
PRYSMIAN (O) FP400	1.5	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	2.5	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	4.0	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	6.0	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	10	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	16	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	25	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	35	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	50	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	70	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	95	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	120	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	150	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	185	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	240	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	300	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	400	2, 3 & 4	F2	995e/01
PRYSMIAN (O) FP400	1.5	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	2.5	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	4.0	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	6.0	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	10	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	16	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	25	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	35	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	50	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	70	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	95	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	120	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	150	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	185	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	240	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	300	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	400	2, 3 & 4	F2	995e/02
PRYSMIAN (O) FP400	1.5	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	2.5	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	4.0	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	6.0	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	10	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	16	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	25	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	35	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	50	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	70	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	95	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	120	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	150	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	185	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	240	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	300	2, 3 & 4	F2	995e/03
PRYSMIAN (O) FP400	400	2, 3 & 4	F2	995e/03

Uo/U 600/1000V
Notes:
Stranded conductors only.
In meeting the requirements of BS 7846:2015 Category F2, the PRYSMIAN (O) FP400 cables met the requirements for smoke density to EN 61034-2:2005+A2:2020, fire resistance to BS 6387:2013 categories CWZ and achieved less than 0.5% HCl on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Certificate No: 995f to BS 7846:2015 (Category F2)

DRAKA (O) FTP

Product Name	Nominal csa of conductor (mm²) See note 1	Core Construction	BS 7846 See note 2	LPCB Ref. No.
DRAKA (O) FTP	1.5	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	2.5	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	4.0	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	6.0	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	10	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	16	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	25	2, 3 & 4	F2	995f/01

DRAKA (O) FTP	35	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	50	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	70	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	95	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	120	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	150	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	185	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	240	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	300	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	400	2, 3 & 4	F2	995f/01
DRAKA (O) FTP	1.5	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	2.5	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	4.0	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	6.0	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	10	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	16	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	25	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	35	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	50	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	70	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	95	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	120	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	150	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	185	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	240	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	300	2, 3 & 4	F2	995f/02
DRAKA (O) FTP	400	2, 3 & 4	-	995f/02
DRAKA (O) FTP	1.5	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	2.5	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	4.0	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	6.0	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	10	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	16	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	25	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	35	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	50	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	70	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	95	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	120	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	150	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	185	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	240	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	300	2, 3 & 4	F2	995f/03
DRAKA (O) FTP	400	2, 3 & 4	F2	995f/03

Uo/U 600/1000V
Notes:
Stranded conductors only.
In meeting the requirements of BS 7846:2015 Category F2, the DRAKA (O) FTP cables met the requirements for smoke density to EN 61034-2:2005+A2:2020, fire resistance to BS 6387:2013 categories CWZ and achieved less than 0.5% HCl on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Certificate No: 995g/01 to EN 50200: 2015 (PH120), BS 6387:2013 (CWZ) , EN 50200: 2015 Annex E, EN 60754-1: 2014, EN 61034-2:2005+A2:2020

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction	BS 6387	EN 50200	EN 60754-1	EN 61034-2	LPCB Ref. No.
OCIFLAM XR	1.5	2	C W Z	PH120 & Annex E	<0.5% HCl	>60%	995g/01
OCIFLAM XR	2.5	2	C W Z	PH120 & Annex E	<0.5% HCl	>60%	995g/01

Uo/U 300/500V
Notes:
1. Solid conductors only.

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Certificate No: 1261a to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013 EN 60332-3-24:2009

FireSecure Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
FireSecure Cable	16	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	25	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	35	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	50	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	70	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	95	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	120	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	150	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	185	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	240	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	300	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
FireSecure Cable	400	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01

Certificate No: 1261b to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 60332-3-24:2009 BS 8491:2008

FireSecure Punch Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 60332-3-24	BS 8491	LPCB Ref. No.
FireSecure Punch Cable	16	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	25	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	35	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	50	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	70	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	95	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	120	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	150	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	185	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	240	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	300	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
FireSecure Punch Cable	400	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01

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Certificate No: 077b to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FP400 fire resistant cable LSOH outer covering

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
FP400 fire resistant cable LSOH outer covering	1.5	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	2.5	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	4.0	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	6.0	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	10	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	16	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	25	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	35	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	50	2, 3 & 4 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02
FP400 fire resistant cable LSOH outer covering	70	2 & 3 (See Note 1)	CWZ	>60%	<0.5% HCl	077b/02

Uo/U 600/1000 V
Notes:

. Stranded conductors only.
. Testing of the FP400 range with diameters greater than 20mm were successfully carried out in accordance with Clause 17.6.2 and Annex I of BS 7846:2015.

Certificate No: 077c to BS 6387: 2013, EN 50267-2-1: 1999 and IEC 60331-21: 1999

FP100 Fire resistant single core cable for installation in conduit

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50267-2-1(outer covering)	IEC 60331-21	LPCB Ref. No.
FP 100 Fire resistant single core cable for installation in conduit	16	One(1)	CWZ(2-4)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	25	One(1)	CWZ(2-4)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	35	One(1)	CWZ(2-4)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	50	One(1)	CWZ(2-4)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	70	One(1)	CWZ(2-4)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	95	One(1)	CWZ(2-4)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	120	One(1)	C(2&5)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	150	One(1)	C(2&5)	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	185	One(1)	-	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	240	One(1)	-	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	300	One(1)	-	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	400	One(1)	-	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	500	One(1)	-	-	Complies(6)	077c/01
FP 100 Fire resistant single core cable for installation in conduit	630	One(1)	-	-	Complies(6)	077c/01

Uo/U 450/750 V

Uo/U 600/1000 V

Notes:

1) Standard conductor only.

2) Where a single cable is fitted to a conduit, only phase to earth voltage was applied.

3) To satisfy the requirement of BS 6387, testing for C, W & Z categories was contucted using a 20mm stainless steel conduit as the other metallic element.

4) To satisfy the requirement of BS 6387, testing for W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.

5) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.

6) The FP100 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950^{o}C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Certificate No: 077e to BS 6387:2013 (Category CWZ) EN 60754-1:20014, IEC 60331-21:1999

FP 300 and FP 300MI single core cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	IEC 60331-21	LPCB Ref. No.
FP300MI single core cable	1.0	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	1.5	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	2.5	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	4.0	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	6.0	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	10	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	16	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	25	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	35	One	CWZ	<0.5% HCl	Complies	077e/02
FP300MI single core cable	50	One	C	<0.5% HCl	Complies	077e/02
FP300MI single core cable	70	One	C	<0.5% HCl	Complies	077e/02
FP300MI single core cable	95	One	C	<0.5% HCl	Complies	077e/02

FP300MI single core cable	120	One	C	<0.5% HCl	Complies	077e/02
FP300MI single core cable	150	One	C	<0.5% HCl	Complies	077e/02
FP300MI single core cable	185	One	C	<0.5% HCl	Complies	077e/02
FP300MI single core cable	240	One	C	<0.5% HCl	Complies	077e/02
FP300MI single core cable	300	One	-	<0.5% HCl	Complies	077e/02
FP300MI single core cable	400	One	-	<0.5% HCl	Complies	077e/02
FP300MI single core cable	500	One	-	<0.5% HCl	Complies	077e/02
FP300MI single core cable	630	One	-	<0.5% HCl	Complies	077e/02

Certificate No: 077f to BS 7629-1:2015 (Standard 30) BS 7629-1:2015 (Standard 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH60 & PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FP200 Gold

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	EN 5839-1 clause 26.2d	LPCB Ref. No.
FP200 Gold	1.0	2	STANDARD 30	C, W, Z	PH60	30 min	Standard	077f/01
FP200 Gold	1.5	2, 3 & 4	STANDARD 60	C, W, Z	PH120	30 min	Standard	077f/01
FP200 Gold	2.5	2, 3 & 4	STANDARD 60	C, W, Z	PH120	30 min	Standard	077f/01
FP200 Gold	4.0	2, 3 & 4	STANDARD 60	C, W, Z	PH120	30 min	Standard	077f/01

Certificate No: 077g to BS 7629-1:2015 (ENHANCED 120) , BS 6387:2013 (CWZ) , EN 50200:2015 (Class PH120), BS 8434-2:2003+A2:2009, BS 5839-1:2017 (Clause 26.2e Enhanced)

FP Plus

Product Name	Nominal csa of conductor (mm²) See note 1	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2 See note 3	BS 5839-1 See note 4	LPCB Ref. No.
FP Plus	1.5	2,3 & 4	ENHANCED 120	C, W, Z	PH 120	120 min	Clause 26.2e	077g/02
FP Plus	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 min	Clause 26.2e	077g/02
FP Plus	1.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 min	Clause 26.2e	077g/03
FP Plus	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH 120	120 min	Clause 26.2e	077g/03

Uo/U 300/500V

Notes:

Solid conductor only.

In meeting the requirements of BS 7629-1:2015, the FP Plus cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2020, and achieved less than 0.5% HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.

The duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60 minutes for the fire and mechanical shock phase and an additional 60 minutes for the fire, mechanical shock and water phase.

The FP Plus cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met a duration of 120 minutes when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2017.

Certificate No: 077h to BS 7629-1: 2015 (ENHANCED 120), EN 50200: 2015 (Class PH120), BS 8434-2: 2003+A2:2009 (120min), BS 5839-1: 2013 (Clause 26.2e Enhanced), BS 6387:2013 (C,W,Z)

FP Plus Flex

Product Name	Nominal csa of conductor (mm²)	CoreConstruction(excluding drainwire & earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1Clause 26.2	LPCB Ref. No.
FP Plus Flex	1.0	2(1)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	077h/01
FP Plus Flex	1.5	2,3 & 4(1)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	077h/01
FP Plus Flex	2.5	2,3 & 4(2)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	077h/01
FP Plus Flex	4.0	2,3 & 4(2)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	077h/01

Uo/U 300/500V

Notes:

1) Solid conductor only.

2) Stranded conductor only.

3) In meeting the requirements of BS 7629-1: 2015, the FP Plus Flex cables listed met the requirements for smoke density of EN 61034-2:

2005+A1:2013, and achieved less than 0.5%HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.

4) The duration of 120min when tested in accordance with BS 8434-2: 2003 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.

5) The FP Plus Flex cables listed conform to BS 7629-1: 2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met a duration of 120min when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1: 2013.

Certificate No: 077j to BS 7629-1: 1997

FP200 Flex

Product Name	Nominal csa of conductor (mm²)	CoreConstruction(excluding drain wire & earth)	BS 7629-1	LPCB Ref. No.
FP200 Flex	1.0(1)	2, 3 & 4	Complies(2,3)	077j/02
FP200 Flex	1.5(1)	2, 3 & 4	Complies(2,3)	077j/02
FP200 Flex	2.5(1)	2, 3 & 4	Complies(2,3)	077j/02

Uo/U 300/500V

Notes:

1) Stranded conductor only.

2) In meeting the requirements of BS 7629-1: 1997, the FP200 Flex cables listed met the requirements for smoke density of EN 61034-2:2005, the fire resistance requirements of BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1:1999.

3) BS 7629-1: 1997 was amended in 2004 to implement the changes to the identification of cores by colours, in accordance with the CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.

Certificate 077a covers cables certified in accordance with BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2)

Certificate No: 077n to BS 8491: 2008, EN 60754-1: 2014 and BS EN 61034-2: 2005

FP600S

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2	LPCB Ref. No.
FP600S	2.5	7	120 min	<0.5% HCl	>60%	077n/01
FP600S	4.0	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	6.0	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	10	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	16	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	25	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	35	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	50	2, 3 & 4	120 min	<0.5% HCl	>60%	077n/01
FP600S	70	2 & 3	120 min	<0.5% HCl	>60%	077n/01

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Certificate No: 517b to BS 6387:2013 CWZ, EN 61034-2:2005+A1:2013 and EN 60754-1:2014

FP400 Fire Resistant Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
FP400 Fire Resistant Cable	70	4	CWZ	>60%	<0.5% HCl	517b/01
FP400 Fire Resistant Cable	95	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01
FP400 Fire Resistant Cable	120	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01
FP400 Fire Resistant Cable	150	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01
FP400 Fire Resistant Cable	185	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01
FP400 Fire Resistant Cable	240	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01

FP400 Fire Resistant Cable	300	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01
FP400 Fire Resistant Cable	400	2, 3 & 4	CWZ	>60%	<0.5% HCl	517b/01

Certificate No: 517c to BS8491:2008 EN 60754-1:2014 BS EN 61034-2:2005

FP600S

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2	LPCB Ref. No.
FP600S	70	4	120 min	<0.5% HCl	>60%	517c/01
FP600S	95	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01
FP600S	120	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01
FP600S	150	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01
FP600S	185	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01
FP600S	240	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01
FP600S	300	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01
FP600S	400	2, 3 & 4	120 min	<0.5% HCl	>60%	517c/01

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Certificate No: 1262a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 60332-3-24:2009

ALSECURE PLUS NX100

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
ALSECURE PLUS NX100	10	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	16	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	25	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	35	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	50	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	70	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	95	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	120	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	150	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	185	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	240	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	300	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	400	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	500	One	-	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
ALSECURE PLUS NX100	630	One	-	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01

Certificate No: 1262b to BS 7846:2015 (Category F2) , IEC 60331-21:1999 , EN 60754-2:2014, EN 50200:2015 (PH120), EN 50200:2015 Annex E

ALSECURE PLUS NX400

Product Name	Nominal csa ofConductor (mm²) See note 1	Core Construction(excluding drain wire and earth)	BS 7846 See note 2	IEC 60331-21 See note 3	EN 60754-2	EN 50200	LPCB Ref. No.
ALSECURE PLUS NX400	16	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	25	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS	35	2, 3 & 4	F2	(90+15)	Complies	-	1262b/01

NX400				Minutes			
ALSECURE PLUS NX400	50	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	70	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	95	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	120	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	150	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	185	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	240	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	300	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	400	2, 3 & 4	F2	(90+15) Minutes	Complies	-	1262b/01
ALSECURE PLUS NX400	1.5	2, 3 & 4	F2	(90+15) Minutes	Complies	PH120 & Annex E	1262b/01
ALSECURE PLUS NX400	2.5	2, 3 & 4	F2	(90+15) Minutes	Complies	PH120 & Annex E	1262b/01
ALSECURE PLUS NX400	6.0	2, 3 & 4	F2	(90+15) Minutes	Complies	PH120 & Annex E	1262b/01
ALSECURE PLUS NX400	4.0	2, 3 & 4	F2	(90+15) Minutes	Complies	PH120 & Annex E	1262b/01
ALSECURE PLUS NX400	10	2,3	F2	(90+15) Minutes	Complies	PH120 & Annex E	1262b/01
ALSECURE PLUS NX400	10	4	F2	(90+15) Minutes	Complies	-	1262b/01

Uo/U 600/1000V

Notes:

1. Stranded conductor only.

2. In meeting the requirements to BS 7846:2015 Category F2, the ALSECURE PLUS NX400 cables listed met the fire resistance requirements of BS 6387:2013 Categories CWZ, achieved more than 70% smoke density when tested in accordance with EN 61034-2:2005, and achieved less than 0.5%HCl for the insulation tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1.

3. The ALSECURE PLUS NX400 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 850°C for a duration of 90minutes + 15minutes cool down, at a voltage rating of 600V.

Certificate No: 1262d to BS 7846:2015 Cat F2 BS 7846:2015 Cat F120 EN 60754-2:2014 IEC 60331-21:1999

ALSECURE PLUS NX600

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	EN 60754-2	IEC 60331-21	LPCB Ref. No.
ALSECURE PLUS NX600	16	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	25	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	35	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	50	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	70	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	95	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	120	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	150	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	185	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	240	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	300	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
ALSECURE PLUS NX600	400	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01

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Certificate No: 568a to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A2:2020 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 60754-2:2014, BS 6387:2013 (CWZ), EN 60754-1:2014, EN 60754-2:2014, EN 61034-2:2005+A2:2020, EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 Minutes), IEC 60331-21:1999

Ramfirecro-F3 FIRE PLANET

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	IEC 60331-21 See note 3	LPCB Ref. No.
Ramfirecro-F3 FIRE PLANET	1.5	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	Annex E	(90 + 15) minutes	568a/02
Ramfirecro-F3 FIRE PLANET	2.5	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	Annex E	(90 + 15) minutes	568a/02
Ramfirecro-F3 FIRE PLANET	4	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	Annex E	(90 + 15) minutes	568a/02

Uo/U 300/500V
Notes:
Stranded conductor only.
Solid conductor only
The Ramcrofirecro-F3 FIRE PLANET cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750 degrees for the duration of (90 + 15) minutes cool down, at a voltage rating of 300/500V.

Certificate No: 568c to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60754-2:2014

Ramfirecro-F3 Standard FIRE SUN

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 5839-1 Clause 26.2	EN 60754-2	LPCB Ref. No.
Ramfirecro-F3 Standard FIRE SUN	1.0	2	Standard 60	C, W, Z	PH120	Standard	Complies	568c/02
Ramfirecro-F3 Standard FIRE SUN	1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	568c/02
Ramfirecro-F3 Standard FIRE SUN	2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	568c/02
Ramfirecro-F3 Standard FIRE SUN	4	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	568c/02

Certificate No: 568d to IEC 60331-21:1999 EN 60754-1:2014 EN 61034-2:2005 + A2:2020

Ramfirecro-F3 FIRE SAFE

Product Name	Nominal csa of conductor (mm²)	Core Construction	IEC 60331-21	EN 60754-1	EN 61034-2	LPCB Ref. No.
Ramfirecro-F3 FIRE SAFE	1.0	2, 3 & 4	(90+15) minutes	<0.5% HCl	>60%	568d/01
Ramfirecro-F3 FIRE SAFE	1.5	2, 3 & 4	(90+15) minutes	<0.5% HCl	>60%	568d/01
Ramfirecro-F3 FIRE SAFE	2.5	2, 3 & 4	(90+15) minutes	<0.5% HCl	>60%	568d/01

Certificate No: 568e to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 60754-2:2014 EN 60332-3-24:2009 EN 60332-1-2:2004

Ramfirecro-F3 FIRE GROUND

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 60754-2	EN 60332-3-24	EN 60332-1-2	LPCB Ref. No.
Ramfirecro-F3 FIRE GROUND	1.5	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
Ramfirecro-F3 FIRE GROUND	2.5	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
Ramfirecro-F3 FIRE GROUND	4	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
Ramfirecro-F3 FIRE GROUND	6	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
Ramfirecro-F3 FIRE GROUND	10	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
Ramfirecro-F3 FIRE GROUND	16	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
Ramfirecro-F3 FIRE GROUND	25	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01

Certificate No: 568g to IEC 60331-21:1999 IEC 60332-1-2:2004 EN 61034-2:2005 EN 60754-1:2014

Fire Resistant Cable

Product Name	Nominal diameter of conductor (mm)	Core Construction (excluding drain wire and earth)	IEC 60331-21	IEC 60332-1-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
RAMFIRECRO-F3 Data Cable Category 6	0.65	4 Pairs	Complies	Complies	>60%	<0.5% HCl	568g/01

Certificate No: 568h to IEC 60331-25:1999, IEC 60332-1-2:2004+A11:2016, EN 61034-2:2005+A2:2020, EN 60754-1:2014, IEC 60332-3-24:2009

FO Single & Multi Mode Cables

Product Name	Total No. of	No. of FO in each	IEC 60331-	IEC 60332-3-	IEC 60332-1-	EN 61034-	No. of Tube/Fillers	EN 60754-1	LPCB Ref.

	FO	tube	25	24	2	2			No.
FO Single Mode Cables	6	6	Complies	Complies	Complies	>60%	1 tube with 5 fillers	<0.5% HCl	568h/01
FO Single Mode Cables	12	6	Complies	Complies	Complies	>60%	2 tubes with 4 fillers	<0.5% HCl	568h/01
FO Single Mode Cables	24	6	Complies	Complies	Complies	>60%	4 tubes with 2 fillers	<0.5% HCl	568h/01
FO Single Mode Cables	48	12	Complies	Complies	Complies	>60%	4 tubes with 2 fillers	<0.5% HCl	568h/01
FO Multi Mode Cables	12	6	Complies	Complies	Complies	>60%	2 tubes with 4 fillers	<0.5% HCl	568h/02
FO Multi Mode Cables	6	6	Complies	Complies	Complies	>60%	1 tube with 5 fillers	<0.5% HCl	568h/02
FO Multi Mode Cables	24	6	Complies	Complies	Complies	>60%	4 tubes with 2 fillers	<0.5% HCl	568h/02
FO Multi Mode Cables	48	12	Complies	Complies	Complies	>60%	4 tubes with 2 fillers	<0.5% HCl	568h/02

Notes:
1. The FO Single Mode & Multi Mode cables met the requirements of IEC 60331-25:1999 when tested at a temperature of 750oC for a duration of 90minutes minutes + 15minutes cooling time.
2. The cables met the change in attenuation requirements of =2dB/fibre when tested in accordance with IEC 60331-25.

Certificate No: 568j to BS 7629-1:2015 Enhanced 120 EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 6387:2013 Category CWZ EN 60332-3-24:2009

Ramfirecro-F3 FIRE STAR

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1	EN 50200	EN 50200 Annex E	BS 8434-2	BS 6387	EN 60332-3-24	BS 5839-1	LPCB Ref. No.
Ramfirecro-F3 FIRE STAR	1.5	2, 3 & 4	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	568j/01
Ramfirecro-F3 FIRE STAR	2.5	2, 3 7 4	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	568j/01
Ramfirecro-F3 FIRE STAR	4.0	2	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	568j/01

Uo/U 300/500V
Notes:
Solid conductor only.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015, the RAMFIRECRO-F3 FIRE STAR cables listed met the requirements for smoke density of EN 61034-2:2005+A2:2020 and achieved less than 0.5% HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1:2014.
The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.
The duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60 minutes for the fire and mechanical shock phase and an additional 60 minutes for the fire, mechanical shock and water phase.
The RAMFIRECRO-F3 FIRE STAR cables listed conform to BS 7629-1:2015, met Class PH 120 when tested in accordance with EN 50200: 2015 and met a duration of 120 minutes duration when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2013.

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Certificate No: 1482a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A2:2020 IEC 60331-21:1999

RCG-FP1

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
RCG-FP1	1.5	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	2.5	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	4.0	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	6.0	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	10	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	16	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	25	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	35	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	50	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	70	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	95	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	120	One	C	<0.5% HCl	>60%	Complies	1482a/01

RCG-FP1	150	One	C	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	185	One	C	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	240	One	C	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	300	One	C	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	400	One	C	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	500	One	-	<0.5% HCl	>60%	Complies	1482a/01
RCG-FP1	630	One	-	<0.5% HCl	>60%	Complies	1482a/01

Certificate No: 1482b to BS 7846:2015 Cat F2

RCG-FP4

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
RCG-FP4	1.5	2, 3 & 4	F2	1482b/01
RCG-FP4	2.5	2, 3 & 4	F2	1482b/01
RCG-FP4	4	2, 3 & 4	F2	1482b/01
RCG-FP4	6	2, 3 & 4	F2	1482b/01
RCG-FP4	10	2, 3 & 4	F2	1482b/01
RCG-FP4	16	2, 3 & 4	F2	1482b/01
RCG-FP4	25	2, 3 & 4	F2	1482b/01
RCG-FP4	35	2, 3 & 4	F2	1482b/01
RCG-FP4	50	2, 3 & 4	F2	1482b/01
RCG-FP4	70	2, 3 & 4	F2	1482b/01
RCG-FP4	95	2, 3 & 4	F2	1482b/01
RCG-FP4	120	2, 3 & 4	F2	1482b/01
RCG-FP4	150	2, 3 & 4	F2	1482b/01
RCG-FP4	185	2, 3 & 4	F2	1482b/01
RCG-FP4	240	2, 3 & 4	F2	1482b/01
RCG-FP4	300	2, 3 & 4	F2	1482b/01
RCG-FP4	400	2, 3 & 4	F2	1482b/01

Certificate No: 1482c to BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 61034-2:2005+A1:2013 EN 60332-1-2:2004+A11:2016 EN 60754-1:2014

RCG-FP2 Multicore cables

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	BS 8434-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
RCG-FP2 Multicore cables	1.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1482c/01
RCG-FP2 Multicore cables	2.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1482c/01
RCG-FP2 Multicore cables	4.0	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1482c/01

Certificate No: 1482e to BS 7846:2015 Cat F2 & F120

RCG-FP6

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7846	LPCB Ref. No.
RCG-FP6	16	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	25	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	35	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	50	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	70	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	95	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	120	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	150	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	185	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	240	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	300	2, 3 & 4	F2 & F120	1482e/01
RCG-FP6	400	2, 3 & 4	F2 & F120	1482e/01

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Certificate No: 1834a to BS 6387:2013 (Category CWZ), EN 61034-2:2005+A2:2020, EN 60754-1:2014, EN 60332-3-24:2009 , EN 60332-1-2:2004+A11:2016

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2) See note 1	Core Contstruction	BS 6387 See note 2	EN 61034-2	EN 60754-1	EN 60332-1-2	EN 60332-3-24	LPCB Ref. No.
Fire Survival Cable	1.5	2,3,4,5,7,12,19,27 & 37	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	2.5	2,3,4,5,7,12,19,27 & 37	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	4.0	2,3,4,5,7,12,19,27 & 37	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	10	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	6.0	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	16	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	25	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	35	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	120	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	150	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	95	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	70	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	50	2,3,4 & 5	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	185	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	240	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	300	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01
Fire Survival Cable	400	2,3 & 4	CWZ	>60%	<0.5% HCl	Compiles	Compiles	1834a/01

Uo/U 600/1000V
Notes:
Stranded conductors only.
2. Cables with an overall diameter of greater than 20mm were tested according to Annex I of BS 7846.

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Certificate No: 1793a to BS 7629-1:2015 Enhanced 120, BS 6387:2013 (Category CWZ), BS 5839-1:2013 (clause 26.2e Enhanced), BS 8519:2010 Clause 11 (Category3)

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire & earth)	BS 7629-1 See note 3	BS 6387	BS 5839-1 See note 4	BS 8519 See note 5	LPCB Ref. No.
SFX FLAME-FLEX Fire Resistant Cable	1.0 (1)	2	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1793a/01
SFX FLAME-FLEX Fire Resistant Cable	1.5 (1)	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1793a/01
SFX FLAME-FLEX Fire Resistant Cable	2.5 (1)	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1793a/01
SFX FLAME-FLEX Fire Resistant Cable	4.0 (2)	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	Clause 11 Category 3	1793a/01

Uo/U 300/500V
Notes:
Solid conductors only.
Stranded conductors only.
In meeting the requirements of BS 7629-1:2015 Enhanced 120, the SFX FLAME-FLEX Fire Resistant Cable listed met the requirements for smoke density of EN 61034-2,achieved less than 0.5%HCl for the outer covering, insulation & tapes when tested in accordance with EN 60754-1.
The SFX FLAME-FLEX Fire Resistant Cable listed conform to BS 7629-1:2015 Enhanced 120, met Class PH120 when tested in accordance with EN 50200:2015 and met a duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2013.
The SFX FLAME-FLEX Fire Resistant Cable listed also met the requirements for a Category 3 control cables as described in clause 11 of BS

8519:2010.

Certificate No: C1793b to BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (CWZ) , EN 50200-2015 (Class PH120), BS 5839-1:2017 (Claue 26.2d Standard), BS 8519:2010 Clause 11 (Category 1), EN 50200:2015 Annex E

SFX FLAME-FLEX 60

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 7629-1 (See note 3)	BS 6387	EN 50200 (see note 6)	EN 50200 (See Note 4)	BS 5839-1 Clause 26.2d (See note 5)	BS 8519 Clause 11 (See note 7)	LPCB Ref. No.
SFX FLAME-FLEX 60	1.0(1)	2	STANDARD 60	C.W.Z	PH120	Annex E	Standard	Category 1	1793b/01
SFX FLAME-FLEX 60	1.5(2)	2, 3 & 4	STANDARD 60	C.W.Z	PH120	Annex E	Standard	Category 1	1793b/01
SFX FLAME-FLEX 60	2.5(2)	2, 3 & 4	STANDARD 60	C.W.Z	PH120	Annex E	Standard	Category 1	1793b/01
SFX FLAME-FLEX 60	4.0(2)	2, 3 & 4	STANDARD 60	C.W.Z	PH120	Annex E	Standard	Category 1	1793b/01

Uo/U 300/500V
Notes:
1. Solid conductors only.
2. Solid and Stranded conductors only.

In meeting the requirements of BS 7629-1:2015 Standard 60, the SFX FLAME-FLEX 60 Cables listed met the requirements for smoke density to EN 61034-2:2005+A2:2020, achieved less than 0.5% HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and a further 15 minutes for the fire, mechanical shock and water phase.
The SFX FLAME-FLEX 60 Cables listed conform to BS 7629-1:2015 Standard 60, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in the Clause 26.2d of BS 5839-1:2017.
The SFX FLAME-FLEX 60 cables conform to EN 50200:2015 PH120 when tested with the P Clip size RC26 as per the recommendation of the test sponsor.
The SFX FLAME-FLEX 60 Cables listed also met the requirements for a Category 1 control cables as described in clause 11 of BS 8519:2010.

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Certificate No: 978c to BS 6387:2013 (Category CWZ), EN 50200:2015 (Class PH120), EN 61034-2:2005+A2:2020, EN 60754-1:2014

FrTek 40E

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 61034	EN 60754-1	LPCB Ref. No.
FrTek 40E	1.5	2, 3 & 4	C, W, Z	PH120	>60%	<0.5% HCl	978c/01
FrTek 40E	2.5	2, 3 & 4	C, W, Z	PH120	>60%	<0.5% HCl	978c/01

Uo/U 600/1000V
Notes:
Stranded conductor only.

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Certificate No: 1383a to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

LLT Fire Resistant Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 50200	EN50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
LLT Fire Resistant Cable	1.0	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a/01
LLT Fire Resistant Cable	1.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a/01

LLT Fire Resistant Cable	2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a/01

Certificate No: 1383b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

LLT-FR Multi-Core Cables

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
LLT-FR Multi-Core Cables	1.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	1383b/01
LLT-FR Multi-Core Cables	2.5	2, 3 & 4	C, W, Z	PH 120	30 min	<0.5%	>60%	Complies	1383b/01

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Certificate No: 1812a to BS 6387:2013 (CWZ) , EN 60754-1:2014, EN 60754-2:2014, EN 61034-2:2005+A2:2020, EN 50200:2015 (Class PH120) , IEC 60331-21:1999, EN 50200:2015 Annex E (30 minutes)

Fire Resistant Cables

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200	IEC 60331-21 See note 3	LPCB Ref. No.
Premium Fire Resistant Cable	1.5(1,2)	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	Annex E	(90 + 15) minutes	1812a/01
Premium Fire Resistant Cable	2.5(1,2)	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	Annex E	(90 + 15) minutes	1812a/01
Premium Fire Resistant Cable	4(1)	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	Annex E	(90 + 15) minutes	1812a/01

Uo/U 300/500V
Notes:
Stranded conductors only.
Solid conductor only.
The Premium Fire Resistant cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750 degrees for the duration of (90 + 15) minutes cool down, at a voltage rating of 300/500V.

Certificate No: 1812b to BS 7629-1:2015 (STANDARD 60) , BS 6387:2013 (Category CWZ), BS 5839-1:2013 (Clause 26.2d Standard), EN 50200:2015 (Class PH120), EN 60754-2:2014, EN 50200:2015 Annex E (30 mins)

Fire resistant cables

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 7629-1 See note 3	BS 6387	EN 50200	BS 5839-1 Clause 26.2 See note 4	EN 60754-2 See note 5	LPCB Ref. No.
Premium-X	2.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Standard	Complies	1812b/01
Premium-X	1.0(1)	2	Standard 60	C, W, Z	PH120	Standard	Complies	1812b/01
Premium-X	4.0(2)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Standard	Complies	1812b/01
Premium-X	1.5(1)	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	1812b/01

Uo/U 300/500V
Notes:
Solid and Stranded conductors.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015 Standard 60, the Premium-X cables listed met the fire resistance requirements for 120 minutes when tested in accordance with EN 50200: 2015 PH120, met the fire resistance requirements for 30 minutes when tested in accordance with EN 50200: 2015 Annex E, achieved more than 80% smoke density when tested in accordance with EN 61034-2:2005 and achieved less than 0.5% HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1:2014.
The Premium-X cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2d of BS 5839-1:2013.
Tested to general method given in EN 60754-2:2014

Certificate No: 1812c to BS 5839-1:2013 (clause 26.2e Enhanced), EN 60332-3-24:2009 , BS 8434-2:2003+A2:2009 (120 mins), BS 7629-1:2015 Enhanced 120, EN 50200:2015 (Class PH120), BS 6387:2013 Category CWZ

Fire resistant cables

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 7629-1 (see note 3)	EN 50200	EN 50200 (see note 4)	BS 8434-2 (see note 5)	BS 6387	EN 60332-3-24	BS 5839-1 (Clause 26.2e)	LPCB Ref. No.
Premium-Xplus	1.5(1,2)	2, 3 & 4	ENHANCED 120	PH120	Annex E	120 minutes	C, W, Z	Complies	Enhanced	1812c/01
Premium-Xplus	2.5(1,2)	2, 3 & 4	ENHANCED 120	PH120	Annex E	120 minutes	C, W, Z	Complies	Enhanced	1812c/01
Premium-Xplus	4.0(2)	2	ENHANCED 120	PH 120	Annex E	120 minutes	C, W, Z	Complies	Enhanced	1812c/01

Uo/U 300/500V
Notes:
Solid conductor only.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015, the Premium-Xplus cables listed met the requirements for smoke density of EN 61034-2:2005+A2:2020 and achieved less than 0.5% HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1:2014.
The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.
The duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60 minutes for the fire and mechanical shock phase and an additional 60 minutes for the fire, mechanical shock and water phase.
The Premium-Xplus cables listed conform to BS 7629-1:2015, met Class PH 120 when tested in accordance with EN 50200: 2015 and met a duration of 120 minutes duration when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2013.

Certificate No: 1812d to BS 6387:2013 (CWZ) , EN 50200:2015 (Class PH30), EN 50200:2015 Annex E, EN 60332-1-2:2004 , EN 60754-1:2014, EN 61034-2:2005+A2:2020

Fire resistant Cables

Product Name	Nominal csa of conductor (mm2)	Core Construction	BS 6387	EN 50200	EN 50200	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
SH-FRC	1.0(1)	2, 3 & 4	C, W, Z	PH30	Annex E	<0.5%	>60%	Complies	1812d/01
SH-FRC	1.5(1)	2, 3 & 4	C, W, Z	PH30	Annex E	<0.5%	>60%	Complies	1812d/01
SH-FRC	2.5(1)	2, 3 & 4	C, W, Z	PH30	Annex E	<0.5%	>60%	Complies	1812d/01

Uo/U 300/500V
Notes:
Solid Conductor only.

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Certificate No: 1671a to BS 6387:2013 (Category CWZ) IEC 60754-1:2011 IEC 60754-2:2011 IEC 61034-2:2005+A2:2009 IEC 60331-21:1999, IEC0331-21:1999, IEC-60332-3-24:2009

True Fire Resistant Cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60754-1	IEC 60754-2	IEC 61034-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
True Fire Resistant Cable	1.5	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	2.5	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	4.0	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	6.0	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	10	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	16	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	25	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	35	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	50	One	CWZ	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	70	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	95	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	120	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	150	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01

True Fire Resistant Cable	185	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	240	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	300	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	400	One	C	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	500	One	-	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01
True Fire Resistant Cable	630	One	-	<0.5%HCl	Complies	>60%	(180+15) minutes	Complies	1671a/01

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Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	EN / IEC 60332-1-2	IEC 60331-21	EN / IEC 60332-3-22	EN / IEC 60332-3-23	EN / IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 90 Cable Single Core SI	1.5	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	2.5	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	4.0	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	6.0	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	10	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	16	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	25	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	35	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	50	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	70	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	95	One	CWZ	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	120	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	150	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	185	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	240	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	300	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	400	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	500	One	-	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core SI	630	One	-	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
BETAflam FR-MI 90 Cable Single Core DI	1.5	One	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	2.5	One	CW	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02

			Z								
BETAflam FR-MI 90 Cable Single Core DI	4.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	6.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	10	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	16	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	25	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	35	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	50	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	70	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	95	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	120	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	150	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	185	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	240	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	300	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	400	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	500	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
BETAflam FR-MI 90 Cable Single Core DI	630	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02

Certificate No: 896b to BS 6387:2013 (Categories CWZ) EN/IEC 60754-1: 2014/2011 EN/IEC 61034-2:2005 + A2:2020/2019, IEC 60331-21:1999 EN/IEC 60332-3-24:2009 EN/IEC 60332-3-22:2009 EN/IEC 60332-3-23:2009

Fire Resistant Single Core

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	IEC 60331-21	EN / IEC 60332-3-22	EN / IEC 60332-3-23	EN / IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 110 Cable Single Core SI	1.5	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	2.5	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	4.0	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	6.0	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	10	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	16	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	25	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	35	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	50	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	70	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	95	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	120	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	150	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	185	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	240	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable	300	One	C	<0.5%	>60%	Complies	-	-	Complies	896b/01

Single Core SI				HCl						
BETAflam FR-MI 110 Cable Single Core SI	400	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	500	One	-	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core SI	630	One	-	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
BETAflam FR-MI 110 Cable Single Core DI	1.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	2.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	4.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	6.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	10	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	16	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	25	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	35	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	50	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	70	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	95	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	120	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	150	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	185	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	240	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	300	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	400	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	500	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
BETAflam FR-MI 110 Cable Single Core DI	630	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02

Uo/U 600/1000V

Notes:

1. Stranded conductor only.

2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.

3. When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit. Either one or three conductors are tested, and this is dependant on cable diameter. The conduit in all cases is connected to the neutral of the transformer.

4. The BETAflam FR-MI 110 Cable Single Core SI cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 950°c and at a voltage rating of 600V. The fire survival time is 180 mins and 15 mins cooldown.

Certificate No: 896c to IEC 60332-1-2:2004, BS 6387: 2013 (CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009, BS 6387:2013 (Categories CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2020, IEC 60331-21:1999 , IEC 60332-3-24:2009

BETAflam FR-MI 110 Cable Multicore, STA & SWA

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1-2	IEC 60331-21 See note 2	IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 110 Cable Multicore, STA & SWA	1.5(1)	2 - 41	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	2.5(1)	2 - 24	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	4.0(1)	2 - 7	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	6.0(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	10(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore,	16(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01

STA & SWA									
BETAflam FR-MI 110 Cable Multicore, STA & SWA	25(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	35(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	50(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	70(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	95(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	120(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	150(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	185(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	240(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	300(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01
BETAflam FR-MI 110 Cable Multicore, STA & SWA	400(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/01

Uo/U 600/1000V
Notes:
1. Stranded conductors only
2. The BETAflam FR-MI 110 Cable Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950oC for a duration of (180 + 15) minutes at a voltage rateing of 600/1000V.

Certificate No: 896c to BS 6387: 2013 (CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009, BS 6387:2013 (categories CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2020, IEC 60331-21:1999 , IEC 60332-3-24:2009, IEC 60332-1-2:2004

BETAflam FR-MI 110 Cable Multicore STA

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	BS EN 61034-2	IEC 60332-1-2	IEC 60331-21 See note 2	IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 110 Cable Multicore STA	1.5(1)	2 - 41	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	2.5(1)	2 - 21	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	4.0(1)	2 - 7	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	6.0(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	10(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	16(1)	3 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	25(1)	3 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	35(1)	3 - 5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	50(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	70(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	95(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	120(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	150(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	185(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	240(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	300(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02
BETAflam FR-MI 110 Cable Multicore STA	400(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896c/02

Uo/U 600/1000V
Notes:
1. Stranded conductors only
2. The BETAflam FR-MI 110 Cable Multicore STA cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950oC for the duration of (180 + 15) minutes at a voltage rating of 600/1000V

Certificate No: 896d to BS 6387:2013 (C W Z) EN 60754-1:2014 IEC 60754-1:2011 EN / IEC 61034-2:2005+A1:2013 IEC 60331-21:1999

EN / IEC 60332-3-24:2009 EN / IEC 60332-1-2:2004

BETAflam FR-MI 110 Cable Comms S/UTP

Product Name	Nominal csa of conductor (mm²)	Core Construction (excluding drain wire)	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	IEC 60331-21	EN / IEC 60332-1-2	EN / IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 110 Cable Comms S/UTP	0.75	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	896d/01
BETAflam FR-MI 110 Cable Comms S/UTP	1.0	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	896d/01
BETAflam FR-MI 110 Cable Comms S/UTP	1.5	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	896d/01
BETAflam FR-MI 110 Cable Comms S/UTP	2.5	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	896d/01

Certificate No: 896e to BS 6387: 1994, BS EN 50267-2-1: 1999, BS EN 61034-2: 2005, IEC 60332-3-22: 2008 and IEC 60332-3-24: 2008, BS 6387:2013 (CWZ) , EN 60754-1:2014 , EN 61034-2:2005+ A2:2020, IEC 60332-3-22:2009, IEC 60332-3-24:2009

BETAflam FR-SIR-F 90

Product Name	Nominal csa ofconductor (mm²)	Coreconstruction(excluding drain wire)	BS 6387	EN 60754-1	BS EN 61034-2	IEC 60332-3-22	IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-SIR-F 90	1.5(1)	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896e/01
BETAflam FR-SIR-F 90	2.5(1)	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896e/01

Uo/U300/500V

Notes

1. Solid Conductors only.

Certificate No: 896f to BS 6387: 1994, BS EN 50267-2-1: 1999, BS EN 61034-2: 2005, IEC 60332-3-22: 2008 and IEC 60332-3-24: 2008, BS 6387:2013 (CWZ) , EN 60754-1:2014, EN 61034-2:2005 + A2:2020 , IEC 60332-3-22:2009 , IEC 60332-3-24:2009

BETAflam FR-SIR-U 90

Product Name	Nominal csa ofconductor (mm²)	Coreconstruction(excluding drain wire)	BS 6387	EN 60754-1	BS EN 61034-2	IEC 60332-3-22	IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-SIR-U 90	2.5(1)	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896f/01

Uo/U300/500V

Notes

1. Solid conductor only.

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 611034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000, BS 6387:2013 (Categories CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2020, IEC 60331-21:1999, IEC 60332-3-24:2009 , IEC 60332-1-2:2004

BETAflam FR-MI 90 Cable Multicore

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60134-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 90 Cable Multicore	1.5(1)	2-41	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	2.5(1)	2-24	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	4.0(1)	2-7	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	6.0(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	10(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	16(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	25(1)	2.5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	35(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	50(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	70(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01

BETAflam FR-MI 90 Cable Multicore	95(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	120(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	150(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	185(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	240(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	300(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01
BETAflam FR-MI 90 Cable Multicore	400(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/01

Uo/U 600/1000V
Notes:
1. Stranded conductors only
2. The BETAflam FR-MI 110 Cable Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950oC for a duration of (180 + 15) minutes at a voltage rating of 600/1000V.

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 61034-2:2005+A1:2013. IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000, BS 6387:2013 (Categories CWZ), EN 60754-1:2014 , EN 61034-2:2005+A1:2020, IEC 60331-21:1999, IEC 60332-3-24:2009, IEC 60332-1-2:2004

BETAflam FR-MI 90 Cable Multicore STA

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1-2	IEC 60331-21 See note 2	IEC 60332-3-24	LPCB Ref. No.
BETAflam FR-MI 90 Cable Multicore STA	1.5(1)	2-41	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	2.5(1)	2-21	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	4.0(1)	2-7	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	6.0(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	10(1)	2-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	16(1)	3-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	25(1)	3-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	35(1)	3-5	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	50(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	70(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	95(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	120(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	150(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	185(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	240(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	300(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02
BETAflam FR-MI 90 Cable Multicore STA	400(1)	3 & 4	CWZ	<0.5%HCl	>60%	Complies	Complies	Complies	896g/02

Uo/U 600/1000V
Notes:

1. Stranded conductors only
2. The BETAflam FR-MI 110 Cable Multicore STA cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950oC for a duration of (180 + 15) minutes at a voltage rating of 600/1000V.

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Certificate No: 982c to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-22:2009 EN 60332-3-24:2009

FR-ZH110

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	EN 60754-2	IEC 60331-21	EN 60332-3-22	EN 60332-3-24	LPCB Ref. No.
FR-ZH110	1.5	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	2.5	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	4.0	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	6.0	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	10	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	16	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	25	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	35	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
FR-ZH110	50	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	70	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	95	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	120	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	150	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	185	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	240	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	300	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	400	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	500	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01
FR-ZH110	630	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	982c/01

Certificate No: 982d to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 EN 60332-3-22:2009 EN 60332-3-24:2009

FR-H110

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	EN 60754-2	IEC 60331-21	EN 60332-3-22	EN 60332-3-24	LPCB Ref. No.
FR-H110	1.5	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	2.5	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	4.0	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	6.0	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	10	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	16	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	25	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	35	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
FR-H110	50	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	70	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	95	One	-	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	120	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	150	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	185	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	240	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	300	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	400	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	500	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01
FR-H110	630	One	-	>60%	0.5%HCl	Complies	Complies	-	Complies	982d/01

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Certificate No: 1352a to BS 6387:2013 CWZ, EN 50267-2-1:1999, EN 61034-2:2005+A1:2013, EN 50200:2006 Annex E (30 mins), EN 50200:2006 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009, BS 6387:2013 (Category CWZ) , EN 50200:2015 (Class PH120), EN 50200:2015 Annex E , EN 60754-1:2014 , EN 61034-2:2005+A2:2020 , EN 60332-3-24:2018 , EN 60332-3-25:2018

TK FR 120 Enhanced

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 50200	EN 60754-1	LPCB Ref. No.
TK FR 120 Enhanced	1.0 See note 1	2, 3 & 4	C W, Z	>60%	PH120 & Annex E	<0.5% HCl	1352a/01
TK FR 120 Enhanced	1.5 See note 1	2, 3 & 4	C, W, Z	>60%	PH120 & Annex E	<0.5% HCl	1352a/01
TK FR 120 Enhanced	2.5 See note 1	2, 3 & 4	C, W ,Z	>60%	PH120 & Annex E	<0.5% HCl	1352a/01
TK FR 120 Enhanced	4.0 See note 2	2, 3 & 4	C, W, Z	>60%	PH120 & Annex E	<0.5% HCl	1352a/01

Uo/U 300/500V
Notes:
Solid and stranded conductors only.
Stranded conductor only.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 1352c to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 (Class PH30)

TK Prime Fire Resistant Cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
TK Prime Fire Resistant Cable	1.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH30	1352c/01
TK Prime Fire Resistant Cable	2.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH30	1352C/01
TK Prime Fire Resistant Cable	4.0	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH30	1352C/01

Certificate No: 1352d to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mns)

TK Supreme Fire Resistant Cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction(excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
TK Supreme Fire Resistant Cable	1.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	1352d/01
TK Supreme Fire Resistant Cable	2.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	1252d/01
TK Supreme Fire Resistant Cable	4.0	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	1352d/01

Certificate No: 1352e to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 (CWZ) EN 60332-3-24:2009

TOL6xD 48 4(12 LWP)VH9M

Product Name	No of Fibre Optic	Type of Fibre	IEC 60331-25	EN 60332-3-24	EN 61034-2	EN 60754-1	LPCB Ref. No.
TOL6xD 48 4(12 LWP) VH9M	48	SM	Complies	Complies	>60%	<0.5% HCl	1352e/01

Certificate No: 1352f to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 (CWZ) EN 60332-3-24:2009

TOL8xD 96 8(12 LWP)VH9M

Product Name	No of Fibre Optic	Type of Fibre	IEC 60331-25	IEC 60332-3-24	EN 61034-2	EN 60754-1	LPCB Ref. No.
TOL8xD 96 8(12 LWP)VH9M	96	SM	Complies	Complies	>60%	<0.5% HCl	1352f/01

Certificate No: 1352g to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 Clause 26.2e

TK Flexible Extreme Fire Safety Cable

Product Name	Nominal csa of conductor	Core	BS 7629-1	BS 6387	BS 5839-1 Clause	LPCB Ref.

	(mm²)	Construction			26.2e	No.
TK FLEXIBLE EXTREME FIRE SAFETY CABLE	1.5	2 , 3 & 4	Enhanced 120	C,W,Z	Enhanced	1352g/01
TK FLEXIBLE EXTREME FIRE SAFETY CABLE	2.5	2 , 3 & 4	Enhanced 120	C,W,Z	Enhanced	1352g/01
TK FLEXIBLE EXTREME FIRE SAFETY CABLE	4.0	2 , 3 & 4	Enhanced 120	C,W,Z	Enhanced	1352g/01

Certificate No: 1352h to IEC 60331-25:1999 EN 60332-3-22:2009 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 CWZ BS 8434-2:2003+A2:2009 (120 mins)

TK OPTIFIRE MTX OPTICAL FIBRE CABLE

Product Name	Total No of FO	No of FO in each tube	No tubes/fillers	Type of Fibre	IEC 60331-25	BS 6387	BS 8434-2	EN 60332-3-22	EN 61034-2	EN 60754-1	LPCB Ref. No.
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	2	2	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	4	4	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	6	6	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	8	8	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	12	12	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	24	24	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	12	6	2 tubes + 4 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	24	12	2 tubes + 4 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	48	24	2 tubes + 4 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	36	12	3 tubes + 3 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	72	24	3 tubes + 3 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	48	12	4 tubes + 2 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	96	24	4 tubes + 2 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	60	12	5 tubes + 1 filler	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	120	24	5 tubes + 1 filler	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	72	12	6 tubes	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
TK OPTIFIRE MTX OPTICAL FIBRE CABLE	144	24	6 tubes	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01

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Firetek

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 50200	EN 60754-1	EN 61034-2	LPCB Ref. No.
Firetek	1.5 (See note 1)	2, 3 & 4	C W Z	PH120	<0.5%HCl	>60%	1517b/01
Firetek	2.5 (See note1)	2, 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/01
Firetek	2.5 (See note 2)	5	C W Z	PH 120	<0.5% HCl	>60 %	1517b/01
Firetek	4.0 See (note 3)	2, 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/01
Firetek	1.5 (See note 1)	2 , 3 & 4	C W Z	PH120	<0.5% HCl	>60%	1517b/02
Firetek	2.5 (See note 1)	2 , 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/02
Firetek	4.0 (See note 2)	2 , 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/02
Firetek	1.5 (See note 1)	2 , 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/03
Firetek	2.5 (See note 1)	2 , 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/03
Firetek	4.0 (See note 2)	2 , 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517b/03

Uo/U 300/500V
Notes:
Solid and Stranded conductor.

Solid conductor only.
Stranded conductor only.

Certificate No: 1517c to BS 6387:2013 (Category CWZ) , EN 50200:2015 (Class PH120) , EN 61034-2:2005+A2:2020, EN 60754-1:2014

FireTek Smart

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 50200	EN 60754-1	EN 61034-2	LPCB Ref. No.
FireTek Smart	1.5 (See note 1)	2, 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517c/01
FireTek Smart	2.5 (See note1)	2, 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517c/01
FireTek Smart	4.0 (See note 2)	2, 3 & 4	C W Z	PH 120	<0.5% HCl	>60%	1517c/01

Uo/U 300/500V

Notes:
Solid & Stranded conductors only.
Stranded conductors only.

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Certificate No: 1354e to BS 7629-1:2015 Standard 30 & 60, EN 50200:2015 (PH120), BS 6387:2013 (Category CWZ), BS 8519:2010 Clause 11 (Category 1), BS 5839-1:2017 (Clause 26.2d Standard)

FLAME-X 950 SERIES 2

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS7629-1 - see note 4	BS 6387	EN 50200	BS 5839-1 - see note 5	BS 8519 see note 6	LPCB Ref. No.
FLAME-X 950 SERIES 2	1.0	2	STANDARD 30,60	C, W, Z	PH120	26.2d	Clause 11 Category 1	1354e/01
FLAME-X 950 SERIES 2	1.5	2, 3, 4, 7, 12 & 19	STANDARD 30,60	C, W, Z	PH120	26.2d	Clause 11 Category 1	1354e/01
FLAME-X 950 SERIES 2	2.5	2, 3, 4, 7 & 12	STANDARD 30,60	C, W, Z	PH120	26.2d	Clause 11 Category 1	1354e/01
FLAME-X 950 SERIES 2	4.0	2, 3 & 4	STANDARD 30,60	C, W, Z	PH120	26.2d	Clause 11 Category 1	1354e/01

Uo/U 300/500V
Notes:
Solid conductor only.
Solid and Stranded conductor only.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015 Standard 30 & 60, the FLAME-X 950 SERIES 2 cables listed met the requirements for smoke density of EN 61034-2: 2005+A1:2013, achieved less than 0.5%HCl for the outer covering, tape & insulation when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The FLAME-X 950 SERIES 2 cables listed conform to BS 7629-1:2015 Standard 60, met class PH120 when tested in accordance with EN 50200:2015 and met a duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for fire resistant cables as described in Clause 26.2d of BS 5839-1:2017.
The FLAME-X 950 SERIES 2 cables listed also met the requirements for a Category 1 control cables as described in clause 11 of BS 8519:2010.

Certificate No: 1354f to BS 7629-1:2015 Enhanced 120, BS 6387:2013 (Category CWZ), EN 50200:2015 (Annex E), IEC 60331-21:1999, BS 5839-1:2017 (Clause 26.2e), BS 8519:2010 Clause 11 (Category 3)

FLAME-X 950 SERIES 2E

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 7629-1 see note 5	BS 6387	IEC 60331-21 see note 6	BS 5839-1 see note 5	BS 8519 see note 7	LPCB Ref. No.
FLAME-X 950 SERIES 2E	1.0	2	ENHANCED 120	C, W, Z	(90 + 15) minutes	Clause 26.2e	Clause 11 Category 3	1354f/01
FLAME-X 950 SERIES 2E	1.5	2, 3, & 4	ENHANCED 120	C, W, Z	(90 + 15) minutes	Clause 26.2e	Clause 11 Category 3	1354f/01
FLAME-X 950 SERIES 2E	2.5	2, 3, & 4	ENHANCED 120	C, W, Z	(90 + 15) minutes	Clause 26.2e	Clause 11 Category 3	1354f/01
FLAME-X 950 SERIES 2E	4.0	2, 3, & 4	ENHANCED 120	C, W, Z	(90 + 15) minutes	Clause 26.2e	Clause 11 Category 3	1354f/01

Uo/U 300/500V
Notes:
Solid conductor only.
Solid and Stranded conductor only.
Stranded conductor only.

In meeting the requirements of BS 7629-1:2015 Enhanced 120, the FLAME-X 950 SERIES 2E cables listed met the requirements for smoke density of EN 61034-2: 2005+A1:2013, achieved less than 0.5%HCl for the outer covering, tape & insulation when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The FLAME-X 950 SERIES 2E cables listed conform to BS 7629-1:2015 Enhanced 120, met Class PH120 when tested in accordance with EN 50200:2015 and met a duration of 120 minutes when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for a fire resistant cable as described in Clause 26.2e of BS 5839 1:2017.
The FLAME-X 950 SERIES 2E cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750°C, for a duration of 90 + 15 minutes cool down period at a voltage of 300/500V.
The FLAME-X 950 SERIES 2E cables listed also met the requirements for a Category 3 control cables as described in clause 11 of BS 8519:2010.

Certificate No: 1354g to BS 8592:2016 , BS 6387:2013 (Category CWZ)

FLAME-X 950 SERIES 1

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction	BS 8592 See note 2 & 3	BS 6387 (See note 3 & 4)	LPCB Ref. No.
FLAME-X 950 SERIES 1	1.5	One	Complies	C, W, Z	1354g/01
FLAME-X 950 SERIES 1	2.5	One	Complies	C, W, Z	1354g/01
FLAME-X 950 SERIES 1	4.0	One	Complies	C, W, Z	1354g/01
FLAME-X 950 SERIES 1	6.0	One	Complies	C, W, Z	1354g/01

Uo/U 450/750V
Notes:
Stranded conductors only.

2. *In meeting the requirements of BS 8592:2016, the FLAME-X 950 SERIES 1 cables listed met the fire resistant requirements for 120 minutes according to IEC 60331-3, achieved more than 60% smoke density when tested in accordance with EN 61034-2:2005 and achieved less than 0.5%HCl for the binding tape and outer covering when tested in accordance with EN 60754-1:2014.*
3. *Where a single cable is fitted in a conduit, only phase to earth voltage was applied.*
4. *When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm stainless steel conduit. Either one or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.*

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Certificate No: 1151a to BS EN 60332-1-2: 2004, BS EN 60332-3-24: 2009, BS EN 61034-2: 2005, BS EN 50267-2-1: 1999, BS EN 50267-2-2: 1999 and BS EN 50267-2-3: 1999

AFUMEX NHXMH

Product Name	Nominal csa of conductor (mm²)	Core construction	EN 60332-1-2	EN 60332-3-24	EN 50267-2-1	EN 50267-2-3(see note 3)	EN 61034-2	LPCB Ref. No.
AFUMEX NHXMH	1.5(1)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
AFUMEX NHXMH	2.5(1)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
AFUMEX NHXMH	4.0(1)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
AFUMEX NHXMH	6.0(1)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
AFUMEX NHXMH	10(1, 2)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
AFUMEX NHXMH	16(2)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01

U0/U 300/500V

Notes:

1. Solid conductor only.

2. Stranded conductor only.

3. In achieving a weighted average of pH greater than 4.3 and a weighted average of Conductivity less than 10µS/mm on the constituent materials when tested in accordance with BS EN 50267-2-3: 1999, the AFUMEX NHXMH cables listed also met the requirements of BS EN 50267-2-2: 1999.

Certificate No: 1151b to BS EN 60332-1-2: 2004, BS EN 60332-3-24: 2009, BS EN 61034-2: 2005. BS EN 50267-2-1: 1999, BS EN 50267-2-2: 1999 and BS EN 50267-2-3: 1999

AFUMEX H07Z1

Product Name	Nominal csa of conductor (mm²)	Core construction	BS EN 60332-1-2	BS EN 60332-3-24	BS EN 50267-2-1	BS EN 50267-2-3(see note 4)	BS EN 60134-2	LPCB Ref. No.
AFUMEX H07Z1-R	240	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX	1.5	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01

H07Z1-K								
AFUMEX H07Z1-K	2.5	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	4.0	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	6.0	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	10	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	16	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	25	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	35	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	50	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	70	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	95	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	120	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	150	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	185	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-K	240	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-U	1.5	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-U	2.5	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-U	4.0	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-U	6.0	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-U	10	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	10	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	16	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	25	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	35	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	50	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	70	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	95	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	120	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	150	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
AFUMEX H07Z1-R	185	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01

Uo/U 450/750V

Notes:

1. Solid (Class 1) conductor.

2. Stranded (Class 2) conductor.

3. Flexible (Class 5) conductor.

4. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less thant 10µS/mm on the constituent materials when tested in accordance with BS EN 50267-2-3: 1999, the AFUMEX H07Z1 cables listed also met the requirements of BS EN 50267-2-2: 1999.

Certificate No: 1151c to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, IEC 60331-21:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH FE 180

Product Name	Nominal csa of conductor (mm^2)	Core Construction(excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
AFUMEX N2XH FE 180	16/10	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	25/16	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	35/16	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	50/25	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	70/35	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	95/50	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	120/70	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	150/70	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	185/95	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01
AFUMEX N2XH FE 180	240/120	3	>60%	<0.5% HCl	Complies	Complies(3)	Complies	1151c/01

Uo/U 600/1000V

Notes:

1. Solid conductor only.

2. Stranded conductor only.

3. The AFUMEX N2XH FE 180 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750^{o}C for a duration of 180mins at a voltage rating of 600/1000V.

4. In achieving a weighted average of pH greater than 4.3 and a weighted average of donductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH FE 180 cables listed also met the requirements of EN 50267-2-2:1999.

5. The AFUMEX N2XH FE 180 cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1151d to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH

Product Name	Nominal csa of conductor (mm^2)	Core Construction(excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	EN 60332-3-24	LPCB Ref. No.
AFUMEX N2XH	16/10	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	25/16	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	35/16	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	50/25	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	70/35	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	95/50	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	120/70	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	150/70	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	185/95	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
AFUMEX N2XH	240/120	3	>60%	<0.5% HCl	Complies	Complies	1151d/01

Uo/U 600/1000V

Notes:

1. Solid conductor only.

2. Stranded conductor only.

3. In achieving a weighted average of pH greater than 4.3 and a weighted average of donductivity less than 10µS/mm on the constituent

materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH cables listed also met the requirements of EN 50267-2-2:1999.

4. The AFUMEX N2XH cables listed also met the requirements of EN 60332-1-2:2004.

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Certificate No: 682a to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn Platinum

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
NoBurn Platinum	1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01
NoBurn Platinum	1.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01
NoBurn Platinum	2.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01
NoBurn Platinum	40	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01

Certificate No: 682c to BS 6387:2013 (Category CWZ) EN 60754-1-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009, BS 6387:2013 (Category CWZ) , EN 50200:2015 (Class PH120) , EN 50200:2015 Annex E, EN 60754-1:2014 , EN 61034-2:2005+A2:2020 , EN 60332-3-24:2018 , EN 60332-3-25:2018

NoBurn XP

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
NoBurn XP	1.0 See note 1	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	682c/01
NoBurn XP	1.5 See note 1	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	682c/01
NoBurn XP	2.5 See note 1	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	682c/01
NoBurn XP	4.0See note 2	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH120 & Annex E	682c/01

Uo/U 300/500V
Notes:
Solid and stranded conductors only.
Stranded conductor only.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 682d to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2e Enhanced) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn Plus

Product Name	Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
NoBurn Plus	1.0	2	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	682d/01
NoBurn Plus	1.5	2, 3, & 4	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	682d/01
NoBurn Plus	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	682d/01
NoBurn Plus	4.0	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	682d/01

Certificate No: 682g to BS 6387:2013 (CWZ) , BS 7629-1:2015 (STANDARD 60) , EN 50200:2015 (Class PH120) , EN 50200:2015 Annex E, BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-25:2009 , EN 60332-3-24:2009

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 3	BS 6387	EN 50200	EN 50200 See note 4	BS 5839-1 See note 5	LPCB Ref. No.
Firetrax	1.5(1)	2, 3 & 4	STANDARD	C, W,	PH120	Annex E	Clause 26.2d	682g/01

Gold			60	Z				
Firetrax Gold	1.0(1)	2	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	682g/01
Firetrax Gold	4.0(2)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	682g/01
Firetrax Gold	2.5(1)	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Clause 26.2d	682g/01

Uo/U 300/500V
Notes:
Solid conductor only.
Stranded conductor only.
In meeting the requirements of BS 7629-1:2015 Standard 60, the Firetrax Gold cables listed met the requirements for smoke density of EN 61034-2, achieved less than 0.5%HCl for the outer covering, binder tape and insulation when tested in accordance with EN 60754-1 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The duration of 30 minutes when tested in accordance with EN 50200:2015 Annex E is achieved by 15 minutes for the fire and mechanical shock phase and an additional 15 minutes for the fire, mechanical shock and water phase.
The Firetrax Gold cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 30 minutes duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2d of BS 5839-1:2013.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 682h to BS 6387:2013 (Category CWZ), EN 50200:2015 (Class PH120) , EN 60332-3-24:2009 , EN 50200:2015 Annex E, EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 60332-3-25:2009 , EN 61034-2:2005+A2:2020 , EN 60332-3-24:2018, EN 60332-3-25:2018

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
Firetrax Premier	1.0 See note 1	2,3 & 4	C, W, Z	PH 120 & Annex E	>60%	<0.5% HCl	682h
Firetrax Premier	1.5 See note 1	2, 3 & 4	C, W, Z	PH 120 & Annex E	>60%	<0.5% HCl	682h
Firetrax Premier	2.5 See note 1	2, 3 & 4	C, W, Z	PH 120 & Annex E	>60%	<0.5% HCl	682h
Firetrax Premier	4.0 See note 2	2, 3 & 4	C, W, Z	PH 120 & Annex E	>60%	<0.5% HCl	682h

Uo/U 300/500V
Notes:
Solid and stranded conductors only.
Stranded conductor only.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

Certificate No: 682i to BS 5839-1:2013 (clause 26.2e Enhanced), EN 60332-3-24:2009 , EN 60332-3-25:2009 , BS 7629-1:2015 (ENHANCED 120), BS 8434-2:2003+A2:2009, EN 50200:2015 (Class PH120) , BS 6387:2013 (CWZ)

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm2) See note 1	Core Construction (excluding drain wire and earth)	BS 7629-1 See note 2	BS 6387	EN 50200	BS 8434-2 See note 3	BS 5839-1 See note 4	LPCB Ref. No.
Firetrax Xcel	1.0	2	ENHANCED 120	C, W, Z	PH120	120 minutes	Clause 26.2e	682i/01
Firetrax Xcel	2.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 minutes	Clause 26.2e	682i/01
Firetrax Xcel	1.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 minutes	Clause 26.2e	682i/01
Firetrax Xcel	4.0	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 minutes	Clause 26.2e	682i/01

Uo/U 300/500V
Notes:
Solid and stranded conductors.
In meeting the requirements of BS 7629-1:2015 Enhanced 120, the Firetrax Xcel cables listed met the requirements for smoke density of EN 61034-2, achieved less than 0.5%HCl for the outer covering, binder tape and insulation when tested in accordance with EN 60754-1 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
The duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60 minutes for the fire and mechanical shock phase and an additional 60 minutes for the fire, mechanical shock and water phase.
The Firetrax Xcel cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met the 120 minutes duration when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1:2013.
Where the cable diameter is greater than 12mm the cable is additionally approved to EN 60332-3-24.
Where the cable diameter is equal to or less than 12mm the cable is additionally approved to EN 60332-3-25.

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Certificate No: 1609a to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 IEC 60332-3-24:2009

WS 300 Fire Resistant Conduit Cable

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	IEC 60331-21	EN 50200	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60332-3-24	LPCB Ref. No.
WS 300 Fire Resistant Conduit Cable	1.5	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	2.5	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	4.0	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	6.0	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	10	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	16	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	25	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	35	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
WS 300 Fire Resistant Conduit Cable	50	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	70	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	95	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	120	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	150	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	185	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	240	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	300	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	400	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	500	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	630	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	800	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01
WS 300 Fire Resistant Conduit Cable	1000	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	1609a/01

Certificate No: 1609b to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999

WS 100 Fire Resistant Conduit Wire

Product Name	Nominal csa of conductor (mm²)	Core Construction	BS 6387	IEC 60331-21	EN 60754-1	EN 60754-2	EN 61034-2	LPCB Ref. No.
WS 100 Fire Resistant Conduit Wire	1.5	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	2.5	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	4.0	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	6.0	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	10	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	16	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	25	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	35	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01

WS 100 Fire Resistant Conduit Wire	50	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	70	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	95	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	120	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	150	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	185	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	240	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	300	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	400	One	-	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	500	One	-	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
WS 100 Fire Resistant Conduit Wire	630	One	-	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01

Certificate No: 1609c to BS 7846:2015 (Category F2) EN 50200:2015 (Class PH120)

WS 400 FR Cable

Product Name	Nominal csa of conductor (mm²) See Note 1	Core Construction	BS 7846	EN 50200	LPCB Ref. No.
WS 400 Fire Resistant Cable	1.5	2, 3 & 4	F2	PH120	1609c/01
WS 400 Fire Resistant Cable	2.5	2, 3 & 4	F2	PH120	1609c/01
WS 400 Fire Resistant Cable	4.0	2, 3 & 4	F2	PH120	1609c/01
WS 400 Fire Resistant Cable	6.0	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	10	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	16	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	25	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	35	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	50	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	70	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	95	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	120	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	150	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	185	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	240	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	300	2, 3 & 4	F2	-	1609c/01
WS 400 Fire Resistant Cable	400	2, 3 & 4	F2	-	1609c/01

Uo/U 600/1000V
Notes:
1. Stranded conductors only.
2. In meeting the requirements of BS 7846:2015 Category F2, the WS400 FR Cables listed met the requirements for the smoke density to EN 61034-2:2005+A1:2020, fire resistance requirements to BS 6387:2013 CWZ and achieved less than 0.5% HCl for the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Certificate No: 1609d to BS 7846:2015 Cat F2 & F120

WS600 FR Cable

Product Name	Nominal csa of conductor (mm²) See Note 1	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
WS 600 Fire Resistant Cable	4.0	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	6.0	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	10	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	16	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	25	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	35	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	50	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	70	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	95	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	120	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	150	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	185	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	240	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	300	2, 3 & 4	F2 & F120	1609d/01
WS 600 Fire Resistant Cable	400	2, 3 & 4	F2 & F120	1609d/01

Uo/U 600/1000V
Notes:

1. Stranded conductors only.
2. In meeting the requirements of BS 7846:2015 Category F2 & F120, the WS600 FR Cable met the requirements for the smoke density to EN 61034-2:2005+A1:2020, fire resistance requirements to BS 6387:2013 CWZ & BS 8491:2008 and also achieved less than 0.5% HCl for the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Wrexham Mineral Cables

Wynnstay Technology Park, Ruabon, Wrexham, Clwyd, LL14 6EN, United Kingdom
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Certificate No: 333a to EN 60702-1:2002+A1:2015 BS 6387:2013 CWZ EN 60754-1:2014 EN 50200:2015 PH120 BS 8434-2:2003+A2:2009 BS 5839-1:2013 (Enhanced) BS 8491:2008 BS 8519:2010 Category 3

Wrexham Mineral Insulated Cables

Product Name	Nominal csa of conductor (mm²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (Clause 26.2)	BS 8519 Clause 11	LPCB Ref. No.
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	1.5	One, 2, 3, 4, 7, 12 & 19	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	1.5 - 2.5	2, 3, 4, 7, 12 & 19	-	-	-	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	2.5	One, 2, 3, 4, 7, 12 & 19	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	4	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	6	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	10	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	16	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	25	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	4 - 25	2, 3 & 4	-	-	-	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	35	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	50	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	70	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	95	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	120	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	150	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	185	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	240	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	300	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)	400	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	333a/01
Wrexham Mineral Insulated Cables (WMIC Light Duty)	1.0	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Light Duty)	1.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Light Duty)	2.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Light Duty)	4.0	2	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	333a/01
Wrexham Mineral Insulated Cables (WMIC Twisted Light Duty)	1.0	2	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	333a/01

Zhejiang Tianjie Industrial Corp.

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FIRE RESISTANT CABLES

Certificate No: 1759a to BS 6387:2013 (Category CWZ) EN 50200:2015 (PH120) EN 61034-2:2005+A2:2020 EN 60754-1:2014

Fire Resistant Cable

Product Name	Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
FIREGAP MULTICORE FIRE RESISTANT CABLE	1.0	2, 3 & 4	CWZ	PH120	>60%	>0.5% HCl	1759a/01
FIREGAP MULTICORE FIRE RESISTANT CABLE	1.5	2, 3 & 4	CWZ	PH 120	>60%	<0.5% HCl	1759a/01
FIREGAP MULTICORE FIRE RESISTANT CABLE	2.5	2, 3 & 4	CWZ	PH 120	>60%	<0.5% HCl	1759a/01

FIRE RETARDANT CABLES

Fire retardant cables are designed such that in the event of a fire they limit the generation and spread of fire and smoke.

This section lists fire retardant cables for use in fire safety, fire detection and fire alarm systems and other applications where specifications require cables with specific performance in the event of a fire.

The below standards are most commonly used to check the fire performances of the fire retardant cables.

- EN 60332 Tests on electric and optical fibre cables under fire conditions
- EN 61034-2 Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2)
- IEC 60754-1 Tests on gases evolved during combustion of materials from cables - Part 1: Determination of the amount of halogen acid gas
- IEC 60754-2 Tests on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity

MCI-Draka Cable Co. Ltd

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Certificate No: 1614a to EN 60332-1-2:2004+A11:2016 IEC 61034-2:2005+A2:2020 IEC 60754-1:2011

CU/LSHF

Product Name	Nominal csa of conductor (mm²)	Core Construction	EN 60332-1-2	IEC 60754-1	IEC 61034-2	LPCB Ref. No.
CU/LSHF	50	1	Complies	<0.5% HCl	>60%	1614a/01

Studer Cables AG

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Certificate No: 896h to EN/IEC 60332-3-24:2009, EN/IEC 61034-2:2005+A2:2020/2019, EN/IEC60754-1:2014/2011, EN/IEC 60332-1-2:2004+A11:2016/A1:2015

Fire Retardant Cables

Product Name	Nominal csa of conductor (mm²)	Core construction (See note 1)	EN / IEC 60754-1	EN / IEC 61034-2	EN / IEC 60332-1-2	EN / IEC 60332-3-24	LPCB Ref. No.
BETAflam FRT-MI 90 SCSI Cable	1.5	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	2.5	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	4.0	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	6.0	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	10	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	16	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	25	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	35	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	50	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	70	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	95	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	120	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	150	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	185	One	<0.5% HCl	>60%	Complies	Complies	896h/01

BETAflam FRT-MI 90 SCSI Cable	240	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	300	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	400	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	500	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCSI Cable	630	One	<0.5% HCl	>60%	Complies	Complies	896h/01
BETAflam FRT-MI 90 SCDI Cable	1.5	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	2.5	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	4.0	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	6.0	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	10	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	16	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	25	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	35	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	50	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	70	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	95	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	120	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	150	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	185	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	240	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	300	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	400	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	500	One	<0.5% HCl	>60%	Complies	Complies	896h/02
BETAflam FRT-MI 90 SCDI Cable	630	One	<0.5% HCl	>60%	Complies	Complies	896h/02

Uo/U 600/1000V

Notes:

1. Stranded conductors only

LINE UNITS

A Line Unit is the term given to define devices used for functions other than fire detection, which are

connected to a fire detection and alarm system transmission path or within other components of the fire detection and alarm system e.g. inside Control and Indicating Equipment. For example, the following devices may be regarded as Line Units:

- short circuit isolators
- input/output interfaces

Short-circuit isolators are used to limit the consequences of low parallel resistance faults between the lines of a transmission path of a fire detection and fire alarm system. The transmission path is normally in a loop configuration which is separated into sections by the short circuit isolators, such that a detected fault in a particular section will isolate that particular section allowing other components in other sections on the loop to function correctly.

Input/output devices are intended for different applications, and may therefore have different functions. Their functions are specified by the manufacturer and they are tested and approved against this specification.

This section lists approved Line Units which are connected to a fire detection and alarm system. The initial approval and continued approval processes for Line Units are outlined in scheme document SD038.

Products listed in this section have been approved to:

- EN 54-17 *Short-circuit isolators*
- EN 54-18 *Input/output devices*
- EN 54-25 *Components using radio links*

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1.Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

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Certificate No: 1426e-(cl-6) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-IOM	Addressable I/O Module (PYR-FA-CHA-MB Base) (Branded as Pyronics)	1426e/02

Base:

PYR-FA-CHA-MB

Certificate No: 1426f-(cl-6) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-IM	Loop Isolator (PYR-FA-CHA-IB Base) (Branded as Pyronics)	1426f/01

Base:

PYR-FA-CHA-IB

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne, NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928n-(cl-1) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
20-VW2W100-ADV	Wire to wireless translator module	928n/01

Certificate No: 928r-(cl-1) to EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
20-SGCWE100-ADV	Wireless Conventional System Expander Module	928r/01
20-SGWE100-ADV	Wireless Expander Module	928r/02
20-SGMCB200-ADV	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
20-SGMI200-ADV	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

Advantronic Systems S.L.

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E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928ak-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
AV170AL	Short Circuit Isolator Module	928ak/01

Certificate No: 928n-(cl-2) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
AVW190AL	Wire to wireless translator module	928n/01

Certificate No: 928r-(cl-2) to EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
AVW191AL	Wireless Conventional System Expander Module	928r/01
AVW192AL	Wireless Expander Module	928r/02
AVW226AL	Wireless Battery Powered Output Module	928r/03

	1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	
AVW214AL	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

AGNI Devices PVT Ltd

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Tel: +91 11 28335624
E-mail: info@agnidevices.com

Certificate No: 1330e-(cl-7) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
FL-433/IOM	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-7) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
FL-433/ISO	Analogue Addressable Isolator Module	1330f/01
FL-433/IB	Base Mount Short Circuit Isolator	1330f/02

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396
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Certificate No: 1174g-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
SI-6777	Addressable Isolator Interface (SB-6618 Base) (branded as SECURE)	1174g/01

Bases

SB-6618 Installation Base

Certificate No: 1174h-(cl-1) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
SI-6717	Addressable Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174h/01
SI-6727	Addressable Control Interface (1 Input & 1 Output) (SB-6618 Base) (branded as SECURE)	1174h/02

Bases

SB-6618 Installation base

Ampac Pty Ltd

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E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010aa-(cl-3) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
45681-518AMP	Enhanced deep isolating base (Red)	010aa/08

Certificate No: 010ag-(cl-2) to EN54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
45681-245AMP	Conventional standard relay base	010ag/02

Certificate No: 010ah-(cl-5) to EN 54-17:2005 and EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
55000-845AMP	Analogue Addressable Zone Monitor Unit with Isolator	010ah/05
55000-852AMP	Analogue Addressable Sounder Controller with Isolator	010ah/08
55000-760AMP	Analogue Addressable Mini Switch Monitor with Isolator	010ah/09
SA4700-100AMP	Soteria Switch Monitor Unit (45681-400 Backbox)	010ah/11
SA4700-300AMP	Soteria DIN Switch Monitor Unit (38532-092 DIN Tub)	010ah/12
SA4700-102AMP	Soteria Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SA4700-302AMP	Soteria DIN Input/Output Unit (38532-092 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
SA4700-103AMP	Soteria Mains Input/Output Unit (45681-400 Backbox)	010ah/19
SA4700-104AMP	Soteria Twin Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SA6700-100AMP	Soteria Twin Switch Monitor Unit (45681-400 Backbox)	010ah/22

Bases:

45681-517AMP Enhanced deep isolating bases (White)

45681-518AMP Enhanced deep isolating bases (Red)

45681-400 Backbox

38532-092 DIN Tub

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412
E-mail: enquiries@apollo-fire.co.uk

Certificate No: 010aa to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
45681-284	XP95/Discovery short circuit isolating base	010aa/01
55000-720	XP95 20D negative short circuit isolator (45681-211 Base)	010aa/05
55000-802	XP95 analogue addressable DIN-rail dual isolator	010aa/06
45681-518	Enhanced deep isolating base (Red)	010aa/08
SA5501-320	Intelligent Open Area Visual Indicator (White Flash, White Body) (SA5000-200, SA5000-202 and 45681-210)	010aa/09
SA5501-321	Intelligent Open Area Visual Indicator (Red Flash, White Body) (SA5000-200, SA5000-202 and 45681-210)	010aa/10

Ancillaries

45681-211 XP95 Isolator Base

SA5000-200 XPERT8 (White) Intelligent Base

SA5000-202 XPERT8 (Red) Intelligent Base

45681-210 Intelligent Mounting Base

Certificate No: 010ag to EN54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
55000-182	XP95 analogue addressable DIN-rail sounder control unit	010ag/08
55000-855	XP95 analogue addressable DIN-rail protocol translator single Note: to ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	010ag/14
55000-856	XP95 analogue addressable DIN-rail protocol translator dual Note: to ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	010ag/15
45681-245	S65 conventional standard relay base	010ag/02
45681-246	S65 conventional auxiliary relay base	010ag/03
45681-247	S65 conventional end of line 12V relay base	010ag/04
45681-248	S65 conventional end of line 24V relay base	010ag/05
45681-508	S65 conventional 12V relay base	010ag/06
ORB-RB-10004	Orbis TimeSaver relay base	010ag/17
ORB-SW-10005	Orbis Sav-wire base	010ag/18
55000-797	XP95 analogue addressable DIN-rail mains input/output unit Note: to ensure compliance is maintained, this device shall be installed within an enclosure weighing greater than 4.75kg.	010ag/09

Certificate No: 010ah to EN54-17: 2005 & EN54-18: 2005

Line Units

LINE UNITS

Product Name	Description	LPCB Ref. No
55000-588	XP95 analogue addressable 3 channel input/output unit with isolator	010ah/01
55000-845	XP95 analogue addressable zone monitor unit with isolator	010ah/05
55000-847	XP95 analogue addressable input/output unit with isolator	010ah/06
55000-852	XP95 analogue addressable sounder controller with isolator	010ah/08
55000-812	XP95 analogue addressable DIN-rail zone monitor	010ah/02
55000-760	XP95/Discovery Analogue addressable mini switch monitor with isolator	010ah/09
SA4700-100	Intelligent Switch Monitor (45681-400 Backbox)	010ah/11
SA4700-300	Intelligent DIN-Rail Switch Monitor (38532-092 DIN Tub)	010ah/12
SA4700-102	Intelligent Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SA4700-302	Intelligent DIN-Rail Input/Ouput Unit (38532-092 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
SA4700-103	Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	010ah/19
SA4700-403	Intelligent DIN-Rail Mains Switching Input/Output Unit (38532-091 DIN Tub) Note: 1. This device to be installed within an enclosure weighing greater than 4.75kg.	010ah/20
SA4700-104	Intelligent Twin Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SA6700-100	Intelligent Twin Switch Monitor (45681-400 Backbox)	010ah/22

Ancillaries

45681-211 XP95 Isolator Base

45681-400 Intelligent Interface Backbox

38532-092 Interface Small DIN Tub

38532-091 Interface Large DIN Tub

SA5000-200 XPERT8 (White) Intelligent Base

SA5000-202 XPERT8 (Red) Intelligent Base

45681-210 Intelligent Mounting Base

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy
Tel: +39 (0) 402821110
E-mail: agregori@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928ak to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
LVMX100	Short Circuit Isolator Module	928ak/01

Certificate No: 928n to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
VW2W100	Wire to Wireless Translator Module	928n/01

Certificate No: 928r to EN 54-18: 2005 and EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
SGCWE100	Wireless conventional system Expander module	928r/01
SGWE100	Wireless Expander module	928r/02
VW2W128	Wire to Wireless Dynamic Translator Module	928r/05
SGMCB200	Wireless Battery Powered Output Module Note: 1. The device must be used with the following batteries only: - CR123A (3Vdc) - Main Battery - CR123A (3Vdc) - Secondary Battery	928r/03
SGMI200	Wireless Battery Powered Input Module Notes: 1. The device must be used with the following batteries only: - CR123A (3Vdc) - Main Battery - CR2032A (3Vdc) - Secondary Battery	928r/04

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire, NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426e-(cl-3) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
AW-D319	Addressable I/O Module	1426e/01
AW-D309	Addressable I/O Module (DZ-9058 Base)	1426e/02
AW-D310	Addressable Zone Module	1426e/03

Base

DZ -9056

DZ-9057

DZ-9058

Certificate No: 1426f-(cl-3) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
AW-D314	Loop Isolator (DZ-9057 Base)	1426f/01

Base:

DZ-9057 Base

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna, 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571j to EN 54-17:2005, EN 54-18:2005 & EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
ARF-WL8-TRV	Wireless Translator Module	1571j/01
ARF-WL8-TRH	Wireless Translator Module	1571j/02
EK-WL8-TRH	(EKHO Brand) Wireless Translator Module	1571j/02
KM-WL8-TRH	(K-Mesh Brand) Wireless Translator Module	1571j/02

Certificate No: 1571k to EN 54-18:2005 & EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
ARF-WL8-EXP	Wireless Expander Module	1571k/01
ARF-WL8-OUT	Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571k/03
EK-WL8-EXP	(EKHO Brand) Wireless Expander Module	1571k/01
EK-WL8-OUT	(EKHO Brand) Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571k/03
ARF-WL8-IN	Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571k/02
EK-WL8-IN	(EKHO Brand) Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571k/02

KM-WL8-EXP	(K-Mesh Brand) Wireless Expander Module	1571k/01
KM-WL8-IN	(K-Mesh Brand) Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571k/02
KM-WL8-OUT	(K-Mesh Brand) Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571k/03

Certificate No: 1825g-(cl-1) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
ARC-WL8-TRH	Wireless Translator Module	1825g/01
EK-WL8-TRH	(EKHO Brand) Wireless Translator Module	1825g/01
KM-WL8-TRH	(K-Mesh Brand) Wireless Translator Module	1825g/01
ARC-WL8-TRV	Wireless Translator Module	1825g/02

Certificate No: 1825h-(cl-1) to EN 54-25:2008, EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
ARC-WL8-EXP	Wireless Expander Module	1825h/01
EK-WL8-EXP	(EKHO Brand) Wireless Expander Module	1825h/01
KM-WL8-EXP	(K-Mesh Brand) Wireless Expander Module	1825h/01
ARC-WL8-IN	Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825h/02
EK-WL8-IN	(EKHO Brand) Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825h/02
KM-WL8-IN	(K-Mesh Brand) Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825h/02
ARC-WL8-OUT	Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825h/03
EK-WL8-OUT	(EKHO Brand) Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR123A (3V)	1825h/03
KM-WL8-OUT	(K-Mesh Brand) Wireless Single Output Module	1825h/03

Note:
1. The device must be used with the following batteries only:
- Primary – CR123A (3V)
- Secondary – CR123A (3V)

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
Tel: +971 4 3262730
E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154p to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
WLTM100	Velox Wireless Translator Module	1154p/01

Certificate No: 1154r to EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
WLEM100	Velox Wireless Expander Module	1154r/01
WLMC100X	Velox Wireless Single Channel Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	1154r/02
WLMI100	Velox Wireless Single Channel Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	1154r/03

Certificate No: 928n-(cl-4) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
VELOX WLTM100	Wire to wireless translator module	928n/01

Certificate No: 928r-(cl-4) to EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
VELOX WLCEM100	Wireless conventional system Expander module	928r/01
VELOX WLEM100	Wireless Expander module	928r/02

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post, Thottappuzhassery, Pullada, Pathanam Thitta, Kerala, 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450b-(cl-3) to EN 54-18:2005

Product Name	Description	LPCB Ref. No

BKG530	Addressable Dual Input Module	1450b/02
BKG520	Addressable Input/Output Module	1450b/03

Base

BKG530B Base

BKG520B Base

Certificate No: 1450f-(cl-2) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
BKG510	Loop Isolator	1450f/01
BKG540	Isolating Base	1450f/02

Base

BKFM1

BKFB1

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1330e-(cl-2) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
IM-8412	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-2) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
IM-8414	Analogue Addressable Isolator Module	1330f/01
IGN-7201	Base Mount Short Circuit Isolator	1330f/02

Ceasefire Industries Private Limited

E6, Selaqui Industrial Area, Dehradun, Uttarakhand, 248011, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928n-(cl-9) to EN 54-17: 2005, EN 54-18:2005 & EN 54-25: 2008

Product Name	Description	LPCB Ref. No
TI-002280A	Wire to Wireless Translator Module	928n/01

Certificate No: 928r-(cl-10) to EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
TI-002283A	Wireless Conventional System Expander Module	928r/01

TI-002282A	Wireless Expander Module	928r/02
TI-002255A	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
TI-002253A	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire, WN5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176j to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
CA734	CAST Mini I/O Module	176j/01
CA730	CAST Zone Input Relay Output Module	176j/02
CA731	CAST Zone Input Mains Relay Output Module	176j/03
CA732	CAST Zone Input Module	176j/04
HP734	HP Mini I/O Module with Short Circuit Isolator (Fire Level 1)	176j/01
HP735	HP Mini I/O Module with Short Circuit Isolator (Fire Level 2)	176j/01
HP731	HP Mains Switching I/O Module with Short Circuit Isolator (Fire Level 1)	176j/03
HP732	HP Mains Switching I/O Module with Short Circuit Isolator (Fire Level 2)	176j/03

Accessories:

White Plastic Back Box

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport, SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010aa-(cl-7) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
45681-518IML	Enhanced Deep Isolating Base (Red)	010aa/08

Certificate No: 010ah-(cl-6) to EN 54-18: 2005 and EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
55000-845IMC	Analogue addressable zone monitor with isolator	010ah/05
55000-852IMC	Analogue addressable sounder control unit with isolator	010ah/08

SA4700-100IMC	Switch Monitor (45681-400 Backbox)	010ah/11
SA4700-102IMC	Input/Output Unit (45681-400 Backbox) 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SA4700-103IMC	Mains Switching Input/Output unit (45681-400 Backbox)	010ah/19
SA4700-104IMC	Twin Input/Output Unit (45681-400 Backbox) 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SA6700-100IMC	Twin Switch Monitor (45681-400 Backbox)	010ah/22

45681-400 Backbox

White Plastic Back Box

Certificate No: 176j-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
CA730/CON	CAST Zone Input Relay Output Module	176j/02

Accessories

White Plastic Back Box

DEF

9, rue du Saule Trapu, MASSY, 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1548b-(cl-1) to EN 54-17: 2005, EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
MBAS1L	Addressable I/O module with short circuit isolator for a single zone of conventional devices (small or large enclosure)	1548b/01
MBAS1L-DUO	Addressable I/O modules with short circuit isolator for two zones of conventional devices (large enclosure)	1548b/02

The MBAS1L is available with a small enclosure (Ref. BTE-BM) or a large enclosure (Ref. ED4L).

DEF..

9, rue du Saule Trapu, MASSY, 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1549a-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
ETCL	Addressable Input / Output Module with Short Circuit Isolator	1549a/01
ETCL-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/02
ETC230L-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/03
ET4CL	Addressable Input / Output Module with Short Circuit Isolator	1549a/05

ETCL8E	Addressable Input / Output Module with Short Circuit Isolator	1549a/06
ETCLT-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/04
ETCL64L	Addressable Input / Output Module with Short Circuit Isolator	1549a/07

Detectomat Systems GmbH.

An der Strusbek 3, Ahrensburg, Hamburg, 22926, Germany
Tel: +49 41 02 21 14 60
E-mail: zulassung@detectomat.com

Certificate No: 1548b-(cl-2) to EN 54-17: 2005, EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
MBALC	Addressable I/O module with short circuit isolator for a single zone of conventional devices.	1548b/01
MBALC-DUO	Addressable I/O modules with short circuit isolator for two zones of conventional devices.	1548b/02

Detectomat Systems GmbH..

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Tel: +49 41 02 21 14 60
E-mail: zulassung@detectomat.com

Certificate No: 1549a-(cl-2) to EN 54-18:2005 & EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
ET4C15	Addressable Input / Output Module with Short Circuit Isolator	1549a/05
ETC15	Addressable Input / Output Module with Short Circuit Isolator	1549a/01
ETC15-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/02
ETC15AC-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/03
MT15-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/04

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham, B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331k-(cl-1) to EN 54-18:2005

Product Name	Description	LPCB Ref. No
MAGDUOIOR	MAGDUO Interface Module	331k/01

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire, PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213f to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
200-113	Odyssey Short Circuit Isolating Base	1213f/01
200-504	Odyssey 20D Negative Short Circuit Isolator (200-112 Base)	1213f/02
200-307	Odyssey Enhanced Deep Isolating Base (Red)	1213f/03

Bases:

200-112 Odyssey isolator base

45681-400 Backbox

Certificate No: 1213g to EN 54-18:2005

Product Name	Description	LPCB Ref. No
200-303	Odyssey Conventional Standard Relay Base	1213g/01

Certificate No: 1213h to EN 54-17:2005, EN 54-18:2005

Product Name	Description	LPCB Ref. No
200-203	Odyssey Analogue Addressable Zone Monitor Unit with Isolator	1213h/03
200-206	Odyssey Analogue Addressable Sounder Controller with Isolator	1213h/06
200-201	Odyssey Analogue Addressable Mini Switch Monitor with Isolator	1213h/07
200-202SA	Odyssey Intelligent Switch Monitor (45681-400 Backbox)	1213h/09
200-204SA	Odyssey Intelligent Input/Output Unit (45681-400 Backbox)	1213h/10
200-208SA	Odyssey Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	1213h/11
200-209SA	Odyssey Intelligent Twin Input/Output Unit (45681-400 Backbox)	1213h/12
200-210SA	Odyssey Intelligent Twin Switch Monitor (45681-400 Backbox)	1213h/13

Ancillaries

45681-400 Backbox

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Torfaen, NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331k to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
802-0006	Twinflex I/O Module	331k/01
803-0010	Sita Conventional Zone Module	331k/02

Certificate No: 331m to EN 54-17: 2005 & EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
803-0006	Sita Input/Output Module	331m/01

Finder Yangin Güvenlik Elektronik Sistemler A.S

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 221 40 07
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450b-(cl-1) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
FF MIC500	Intelligent Addressable Single Input/Output Module	1450b/01

Certificate No: 1450f-(cl-4) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
FF BS500-i	Isolating Base	1450f/02

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174g-(cl-4) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
FST-6777	Addressable Isolator Interface (FST-6618 Base) (branded as FST)	1174g/01

Bases

FST-6618 Installation Base

Certificate No: 1174h-(cl-4) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
FST-6717	Addressable Monitor Interface (1 Input) (FST-6618 Base) (branded as FST)	1174h/01
FST-6727	Addressable Control Interface (1 Input & 1 Output) (FST-6618 Base) (branded as FST)	1174h/02

Bases

FST-6618 Installation base

FIREX Protection System Technology Ltd

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Tel: 00971 653 40300
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548m-(cl-3) to EN54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
FXI9300E	Addressable Digital Single Input Module	548m/04
FXI9301E	Addressable Digital Single Input and Output Module	548m/05

FXI9305E	Addressable Digital Single Riser Output Module	548m/06
FXI9319E	Addressable Digital Zone Monitor Unit	548m/07

B-9310 Back Box

Certificate No: 548n-(cl-3) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
FX9504E1	Base Mount Isolator	548n/03
FX9503E	Loop Isolator (B-9310 Back Box)	548n/04
FX9503E1	Addressable Loop Isolator	548n/05

Accessories

B-9310 Back Box

Frontier Safety Ltd UK

85 Great Portland Street, London, England, W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 991g-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
EM312SR	Intelligent Analogue Addressable Mini Input / Output Module with Short Circuit Isolator	991g/01

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042ba to EN 54-17: 2005 & EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
S4-34410	Analogue addressable 1 input interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/01
S4-34411	Analogue addressable 1 output DIN rail mounting interface module with short circuit isolator, medium voltage.	042ba/02
S4-34415	Analogue addressable 1 output surface mounting interface module with short circuit isolator, medium voltage.	042ba/03
S4-34420	Analogue addressable 1 input and 1 output interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/04
S4-34450	Analogue addressable 4 input / output interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/05

Accessories:

S4-34490 Plastic Box

S4-34492 Metal Box

Certificate No: 042bp to EN54-18:2005, EN54-17:2005, EN54-4:1997+A1:2002 + A2:2006

Line Units

Product Name	Description	LPCB Ref. No
S4-34440-ASD	S4 ASD Mains Powered Interface Unit with Short Circuit Isolator	042bp/03
S4-34440-02	Mains powered Interface Unit (2Ah)	042bp/01
S4-34440-12	Mains powered Interface Unit (12Ah)	042bp/02

Certificate No: 042cd to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
S3-ST-RR-BC	Backwards Compatible (MK1) Type A Red Strobe / Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)	042cd

Bases:

S3-DB-R S Cubed Deep Base Red

S3-SB-R S Cubed Shallow Base Red

GEZE GmbH

Reinhold-Vöster-Str. 21-29, D-71229 Leonberg, Germany
Tel: +49 (0)7152-203-0
E-mail: info.de@geze.com • Website: www.geze.com

Certificate No: 928s-(cl-1) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
GC150B	Non-latching relay base	928s/01

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London, W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330e-(cl-5) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
GA7210	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-5) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
GA7230	Analogue Addressable Isolator Module	1330f/01
GA7232	Base Mount Short Circuit Isolator	1330f/02

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province, 066004, China
Tel: +86 0335 8502434
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548m to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
DI-9300E	Addressable Digital Single Input Module	548m/04
DI-9301E	Addressable Digital Single Input and Output Module	548m/05
DI-9305E	Addressable Digital Single Riser Output Module	548m/06
DI-9319E	Addressable Digital Zone Monitor Unit	548m/07
DI-9302E	Addressable Digital High Voltage Relay Module	548m/08

Accessories:

B-9310 Back Box

Certificate No: 548n to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
C-9504E	Base Mount Short Circuit Isolator	548n/02
DC-9504E	Base Mount Isolator	548n/03
C-9503E	Loop Isolator (B-9310 Back Box)	548n/04
DC-9503E	Addressable Loop Isolator	548n/05

Accessories

B-9310 Back Box

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164n to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
YBO-R/SCI(RED)	Short Circuit Isolating Base (RED)	164n/02
YBN-R/3(HFP)-SCI	Short Circuit Isolating Base	164n/05
YBN-R/3(SCI)	Short Circuit Isolating Base	164n/04
YBN-R/3(WHT)-SCI	Short Circuit Isolating Base (white)	164n/05
YBN-R/3(BLK)-SCI	Short Circuit Isolating Base (BLACK)	164n/05
YBN-R/3(HFP)-SCI	Short Circuit Isolating Base (WHITE)	164n/05

Certificate No: 164p to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
YBO-R/6R	Conventional Latching Relay Base	164p/07
YBO-R/6R(WHT)	Conventional Latching Relay Base White	164p/07
YBO-R/6RS	Conventional Latching Relay Base with Integral Schottky Diode	164p/08
YBO-R/6RS(WHT)	Conventional Latching Relay Base with Integral Schottky Diode White	164p/08
YBO-R/6RN	Conventional Non-Latching Relay Base	164p/09
YBO-R/6RN(WHT)	Conventional Non-Latching Relay Base White	164p/09
CHQ-POM	Intelligent Analogue Addressable Powered Output Module	164p/10
CHQ-SIM	Intelligent Analogue Addressable Single Input Module	164p/11
CHQ-SOM	Intelligent Analogue Addressable Single Output Module	164p/12
CHQ-ISM	Intrinsically Safe Sounder Interface Module Note: 1. Should always be used with an I.S Barrier; further details can be found in the manufacturers Installation Instruction. 2. The CHQ-ISM is not itself intrinsically safe.	164p/13
CHQ-ISM/DIN	Intrinsically Safe Sounder Interface Module (DIN Rail Version) Note: 1. Should always be used with as I.S Barrier; further details can be found in the manufacturers installation instructions. 2. The CHQ-ISM/DIN is not itself intrinsically safe. 3. Device to be installed within a SMB-3 or SMB-2 enclosure.	164p/14
CHQ-FTM	Intelligent Analogue Addressable 4-20mA Input/Output Module Note: 1. Device to be installed within an OEM enclosure.	164p/15
CHQ-FTM/DIN	Intelligent Analogue Addressable 4-20mA Input/Output Module (DIN Rail Version) Note: 1. Device to be installed within a TK-PC 1811(SMB-3) enclosure.	164p/16
CHQ-POM(HFP)	Intelligent Analogue Addressable Powered Output Module	164p/10
CHQ-SIM(HFP)	Intelligent Analogue Addressable Single Input Module	164p/11
CHQ-SOM(HFP)	Intelligent Analogue Addressable Single Output Module	164p/12
CHQ-ISM(HFP)	Intrinsically Safe Sounder Interface Module Note: 1. Should always be used with an I.S Barrier; further details can be found in the manufacturers Installation Instruction. 2. The CHQ-ISM is not itself intrinsically safe.	164p/13
CHQ-FTM(HFP)	Intelligent Analogue Addressable 4-20mA Input/Output Module Note: 1. Device to be installed within an OEM enclosure.	164p/15

Certificate No: 164q to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
CHQ-SZM/DIN(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/02
CHQ-DIM/DIN(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN rail	164q/04

	version)	
CHQ-DSC/DIN(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN rail version)	164q/06
CHQ-DRC/DIN(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN rail version)	164q/08
CHQ-DZM(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator	164q/09
CHQ-DZM/DIN(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator (DIN rail version)	164q/10
CHQ-DZM(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator	164q/11
CHQ-DZM/DIN(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN rail version)	164q/12
CHQ-PCM(SCI)	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/13
CHQ-PCM/DIN(SCI)	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/14
CHQ-MRC2/DIN(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/15
CHQ-MRC2(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16
CHQ-DIM2(SCI)	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
CHQ-DIM2/DIN(SCI)	Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)	164q/20
CHQ-DR2(SCI)	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
CHQ-DRC2/DIN(SCI)	Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)	164q/22
CHQ-SZM2(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
CHQ-SZM2/DIN(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator (DIN Rail Version)	164q/24
CHQ-DSC2(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
CHQ-DSC2/DIN-(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)	164q/26
CHQ-MRC2/FS(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator Fail Safe Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/27
CHQ-MRC2/FSDIN(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator (DIN Rail Version) Fail Safe Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/28
CHQ-SZM/OEM(HFP)-SCI	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/01
CHQ-DIM/OEM(HFP)-SCI	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/03
CHQ-DSC/OEM(HFP)-SCI	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/05
CHQ-DRC/OEM(HFP)-SCI	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/07
CHQ-DZM(HFP)-SCI	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator	164q/09
CHQ-DZM(HFP)-SCI-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator	164q/11
CHQ-PCM(HFP)-SCI	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturer's installation manual.	164q/13
CHQ-MRC2(HFP)-SCI	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16

CHQ-DIM2(HFP)-SCI	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
CHQ-DRC2(HFP)-SCI	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
CHQ-SZM2(HFP)-SCI	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
CHQ-DSC2(HFP)-SCI	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
CHQ-MRC2/FS(HFP)-SCI	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator – Fail Safe Note: The device must be in an enclosure as defined in the manufacturer's installation manual.	164q/27

Honeywell

Honeywell House, Arlington Business Park, Bracknell, Berkshire, RG12 1EB, United Kingdom
Tel: 01344 655609
Website: www.honeywell.com

Certificate No: 928aa-(cl-2) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
TC84RME	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Honeywell Protocol)	928aa/02

Ancillaries:

SIGI-MP1 Mounting Plate

SIGA-MP2 Mounting Plate

SIGA-MP2L Mounting Plate

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana, 122004, India
Tel: +91 124 4752700
E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550j-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
MI-DISO	Analogue Addressable Short Circuit Isolator Module	550j/01

Certificate No: 550k-(cl-1) to EN 54-17:2005 & EN 54-18:2005

certs/500-599/C550k-(cl-1)-02 Honeywell Morley-IAS.pdf

Product Name	Description	LPCB Ref. No
MI-DMMI	Analogue Addressable Single Channel Input Module with Short Circuit Isolator	550k/01
MI-DMM2I	Analogue Addressable Dual Channel Input Module with Short Circuit Isolator	550k/02
MI-D2ICMO	Analogue Addressable Dual Channel Input and Single Channel Output Module with Short Circuit Isolator	550k/03
MI-DCMO	Single Channel Output Module with Short Circuit Isolator	550k/04
MI-D240CMO	Single Channel 240V Output Module with Short Circuit Isolator	550k/05

Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe)

Zone d'activitiés La Pièce 16, CH-1180, Rolle, Switzerland
Tel: +41 44 943 4424
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

Certificate No: 199r-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
M200XE	Short Circuit Isolator Module	199r/01

Certificate No: 199x-(cl-1) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
B524IEFT-1	Short Circuit Isolator Base	199x/01
ISO524-1	Short Circuit Isolator Module	199x/02

Certificate No: 567am-(cl-2) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
BST-xx-Iyy	Analogue Addressable Base LED Strobes with Short Circuit Isolator (B501AP) Notes: 1. Not approved to EN 54-23:2010 2. xx indicates colour of body and lens 3. First x indicates body colour. D=Detector White, P=Pure White 4. Second x indicates lens colour. C=Clear, A=Amber, R=Red 5. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567am/02
WST-xx-Iyy	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Notes: 1. Not approved to EN 54-23:2010 2. xx indicates colour of body and lens 3. First x indicates body colour. D=Detector White, P=Pure White 4. Second x indicates lens colour. A=Amber, R=Red 5. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567am/03

Bases

B501AP Mounting base

Hyfire Wireless Fire Solutions Limited

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire, CV8 1NP, United Kingdom
Tel: +44(0)1926485282
E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928n-(cl-6) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
HFW-W2W-01	Wire to wireless translator module	928n/01

Certificate No: 928r-(cl-5) to EN 54-18:2005,EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
HFW-CEM-02	Wireless Conventional System Expander Module	928r/01
HFW-EM-01	Wireless Expander Module	928r/02
HFW-BOM-03	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
HFW-IM-03	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04
HFW-W2W-E-01	Wire to Wireless Dynamic Translator Module	928r/05

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP), 63076, Italy
Tel: +39 0735 705007
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991g to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
EM312SR	Intelligent Analogue Addressable Mini Input / Output Module with Short Circuit Isolator	991g/01
EU311	Intelligent Analogue Addressable Micro Input / Output Module with Short Circuit Isolator	991g/02
EM344S	Intelligent Analogue Addressable 4 Input / 4 Supervised Output Module with Short Circuit Isolator	991g/03
EM344R	Intelligent Analogue Addressable 4 Input / 4 Relay Output Module with Short Circuit Isolator	991g/04
EM340	Intelligent Analogue Addressable 4 Input Module with Short Circuit Isolator	991g/05
EM304S	Intelligent Analogue Addressable 4 Supervised Output Module with Short Circuit Isolator	991g/06
EM304R	Intelligent Analogue Addressable 4 Relay Output Module with Short Circuit Isolator	991g/07

Kentec Electronics Limited

Units 25-26, Fawkes Avenue, Questor, Dartford, Kent, DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 164n-(cl-2) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
KS-BASE-WS-RED-SCI	Short Circuit Isolating Base (RED)	164n/02
KS-BASE-3T-SCI	Short Circuit Isolating Base (WHITE)	164n/05

Certificate No: 164p-(cl-2) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
KS-POWER-OUT	Intelligent Analogue Addressable Powered Output Module	164p/10
KS-SOLO-IN	Intelligent Analogue Addressable Single Input Module	164p/11
KS-SOLO-OUT	Intelligent Analogue Addressable Single Output Module	164p/12
KS-4-20-MA	Intelligent Analogue Addressable 4-20mA Input/Output Module Note: 1. Device to be installed within an OEM enclosure.	164p/15

Certificate No: 164q-(cl-2) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
KS-DUAL-ZONE-SCI	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator	164q/09
KS-DUAL-ZONE-SCI-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator	164q/11
KS-QUAD-IN-OUT-SCI	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturer's installation manual.	164q/13
KS-MAINS-OUT-SCI	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16
KS-DUAL-IN-SCI	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
KS-DUAL-OUT-SCI	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
KS-SOLO-ZONE-SCI	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
KS-DUAL-SND-SCI	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
KS-MAINS-OUT-FS-SCI	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator – Fail Safe Note: The device must be in an enclosure as defined in the manufacturer's installation manual.	164q/27

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk, IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450b-(cl-4) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
KET-DIM-240	Addressable Dual Input Module	1450b/02
KET-IOM-220	Addressable Input/Output Module	1450b/03

Base

KET-IOB-240 Detector Base

KET-IMB-230 Detector Base

Certificate No: 1450f-(cl-3) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
KET-ISM-200	Loop Isolator (KET-ISM-200 Base)	1450f/01
KET-BI-280	Isolating Base	1450f/02

Base

KET-ISM-200 Base

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174g-(cl-5) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
KM-FA6420	Addressable Isolator Interface (KM-FA6401 base) **Base** KM-FA6401 Installation Base	1174g/01

Certificate No: 1174h-(cl-5) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
KM-FA6400	Addressable Monitor Interface (1 Input) (KM-FA6401 Base)	1174h/01
KM-FA6410	Addressable Control Interface (1 Input & 1 Output) (KM-FA6401 Base)	1174h/02

Base

KM-FA6401 Installation Base

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria
Tel: +43 1 52114-44
E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928n-(cl-8) to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
FI720/RF/W2W	Wire to Wireless Translator Module	928n/01

Certificate No: 928r-(cl-9) to EN 54-18:2005 EN 54-25:2008

Line Units

Product Name	Description	LPCB Ref. No
FI720/RF/WE	Wireless Expander Module	928r/02
FI720/RF/CWE	Wireless Conventional System Expander Module	928r/01

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton, WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330e-(cl-6) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
LF-X5210	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-6) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
LF-X5230	Analogue Addressable Isolator Module	1330f/01
LF-X5232	Base Mount Short Circuit Isolator	1330f/02

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul, TR 34775, Turkey
Tel: +90 216 4664 505
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926e to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
ML-1361	Maxlogic Intelligent Addressable System Relay Control Module	926e/01
ML-1362	Maxlogic Intelligent Addressable System Switch Monitor Module	926e/02
ML-1363	Maxlogic Intelligent Addressable System 2 Input / 1 Output Module	926e/03
ML-1366	Maxlogic Intelligent Addressable System 4 Input / 2 Output Module	926e/04
ML-1371	Maxlogic Intelligent Addressable Sounder Control Module	926e/05
ML-1372	Maxlogic Intelligent Addressable Zone Control Module	926e/06
ML-1373	Maxlogic Intelligent Addressable 2 Input / 1 Output Module	926e/07

Ancillaries

ML-0320 Plastic Box

Certificate No: 926f to EN 54-17:2005 & EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
ML-1361.SCI	Maxlogic Intelligent Addressable System Relay Control Module	926f/01
ML-1362.SCI	Maxlogic Intelligent Addressable System Switch Monitor Module	926f/02
ML-1363.SCI	Maxlogic Intelligent Addressable System 2 Input / 1 Output Module	926f/03
ML-1366.SCI	Maxlogic Intelligent Addressable System 4 Input / 2 Output Module	926f/04
ML-1371.SCI	Maxlogic Intelligent Addressable Sounder Control Module	926f/05
ML-1372.SCI	Maxlogic Intelligent Addressable Zone Control Module	926f/06
ML-1373.SCI	Maxlogic Intelligent Addressable 2 Input / 1 Output Module	926f/07

Ancillaries

ML-0320 Plastic Box

Certificate No: 926g to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
ML-1380	Maxlogic Intelligent Addressable System Short Circuit Isolator	926g/01

Ancillaries

ML-0320 Plastic Box

Morley IAS by Honeywell

Caburn House, 2B Brooks Road, Lewes, BN7 2BY, United Kingdom
Tel: +44(0)1273 897000
E-mail: sales@morleysias.co.uk • Website: http://www.morley-ias.co.uk

Certificate No: 928aa-(cl-3) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
MIW-INT	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Morley Protocol)	928aa/03

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, 34147, Italy
Tel: +44 (0)1444 230300
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 199r-(cl-2) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
MI-DISO	Short Circuit Isolator Module	199r/01

Certificate No: 567am-(cl-3) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
MI-WST-PR-I	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Note: 1. Not approved to EN 54-23:2010	567am/03

Bases

B501AP Mounting base

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore, 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330e-(cl-3) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
MX210	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-3) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
MX230	Analogue Addressable Isolator Module	1330f/01
MX232	Base Mount Short Circuit Isolator	1330f/02

Norden Communication UK Ltd

10 Baker Close, Oakwood Business Park, Clacton-On-Sea, Essex, CO15 4BD, United Kingdom
Tel: +44 (0) 207 788 7663
E-mail: sales@nordencommunication.com • Website: www.nordencommunication.com

Certificate No: 1330e-(cl-10) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
NFA-T01CM	Addressable Input/Output Module	1330e/01

Certificate No: 1330f-(cl-10) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
NFA-T01IB	Isolator Base	1330f/02

Notifier by Honeywell

Caburn House, 2B Brooks Road, Lewes, BN7 2BY, United Kingdom
Tel: +44 (0)1444 230300
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 928aa-(cl-1) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Line Units

Product Name	Description	LPCB Ref. No
IDP-RM1	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Notifier Protocol)	928aa/01

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, 34147, Italy
Tel: +44 (0)1444 230300
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 199r-(cl-3) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
M700X	Short Circuit Isolator Module	199r/01

Certificate No: 567am-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
NFXI-BF-WC	Analogue Addressable Base LED Strobes with Short Circuit Isolator (B501AP) Note: 1. Not approved to EN 54-23:2010	567am/02
NFXI-WF-AA	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Note: 1. Not approved to EN 54-23:2010	567am/03

Bases

B501AP Mounting base

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar, Uttar Pradesh, 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450b-(cl-2) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
NF5263	Addressable Single Input/Output Module	1450b/01
NF5260	Loop Isolator	1450f/01

Base

NF5263

NF5260

Certificate No: 1450f-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
NF5260	Loop Isolator (NF5260 Detector Base)	1450f/01

NSC Sicherheitstechnik GmbH

Lange Wand 3, Bielefeld, D33719, Germany
Tel: +49521136290
E-mail: info@nsc-sicherheit.de • Website: www.nsc-sicherheit.de

Certificate No: 010ah-(cl-9) to EN 54-17:2005 & EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
B02947-64	Intelligent Switch Monitor (45681-400 Backbox)	010ah/11
B02940-64	Intelligent Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
B02944-64	Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	010ah/19
B02942-64	Intelligent Twin Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
B02949-64	Intelligent Twin Switch Monitor (45681-400 Backbox)	010ah/22

Ancillaries

45681-400 Intelligent Interface Backbox

Oscar Fire, Safety & Security Ltd

22 Sacriston Close, Billingham, Cleveland, Durham, TS23 2TE, United Kingdom
Tel: +44 1642 560218
E-mail: kevin@oscarfire.uk

Certificate No: 1426e-(cl-8) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
SDS-9056A	Addressable I/O Module (SDS56 Base)	1426e/01
SDS-9058A	Addressable I/O Module (SDS58 Base)	1426e/02
SDS-9052A	Addressable Zone Module (SDS52 Base)	1426e/03

Bases:
SDS56
SDS58
SDS52

Certificate No: 1426f-(cl-8) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
SDS-9057A	Loop Isolator (SDS57 Base)	1426f/01

Base:
SDS57

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya, 10150, Indonesia

Tel: +62216330330

E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426e-(cl-4) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
SDM 767	Addressable I/O Module (DZ-9056 Base)	1426e/01

Base

DZ-9056

DZ-9057

Certificate No: 1426f-(cl-4) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
SIM 718	Loop Isolator (DZ-9057 Base)	1426f/01

Base:

DZ-9057 Base

Safetek Fire Fighting & Safety Equipment Trading L.L.C.

Dubai Investment Park 1, Dubai, 133358, United Arab Emirates

Tel: +971 0554149550

E-mail: firesafetek@gmail.com

Certificate No: 1330e-(cl-8) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
SK7210	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-8) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
SK7230	Analogue Addressable Isolator Module	1330f/01
SK7232	Base Mount Short Circuit Isolator	1330f/02

Schneider Electric Buildings AB

Mobilvägen 8, Lund, 223 62, Sweden

Tel: +46104782000

E-mail: info.se@se.com • Website: www.se.com/buildings

Certificate No: 010aa-(cl-2) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
EMI-400	Intellia DIN-rail dual isolator	010aa/06

Certificate No: 010ah-(cl-1) to EN 54-18: 2005 and EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
EMI-410/CZ	Intellia DIN-rail conventional zone module with isolator	010ah/02
EMI-310/CZ	Intellia conventional zone monitor module with isolator	010ah/05
EMI-301/S	Intellia sounder control module with isolator	010ah/08
EME210-I	ESMI Essentia Switch Monitor EME210-I (FFS06720330 Backbox)	010ah/11
EME214-I	ESMI Essentia DIN-Rail Switch Monitor EME214-I (FFS06720331 DIN Tub)	010ah/12
EME212-I	ESMI Essentia Input/Output Unit EME212-I (FFS06720330 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
EME213-I	ESMI Essentia DIN-Rail Input/Ouput Unit EME213-I (FFS06720331 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
EME215-I	ESMI Essentia Mains Switching Input/Output Unit EME215-I (FFS06720330 Backbox)	010ah/19
EME216-I	ESMI Essentia Twin Input/Output Unit EME216-I (FFS06720330 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
EME211-I	ESMI Essentia Twin Switch Monitor EME211-I (FFS06720330 Backbox)	010ah/22

FFS06720330 Backbox

FFS06720331 DIN Tub

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong, 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426e-(cl-2) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
A9056T	Addressable I/O Module (DZ-9056 Base)	1426e/01
A9058T	Addressable I/O Module (DZ-9058 Base)	1426e/02
A9052T	Addressable Zone Module	1426e/03

Bases:
DZ-9057
DZ-9058

Certificate No: 1426f-(cl-2) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
A9057T	• Loop Isolator (DZ-9057 Base)	1426f/01

Base:
DZ-9057 Base

SHIELD FIRE, SAFETY & SECURITY LTD

Unit 3, Endeavour Drive, Basildon, SS14 3WF, United Kingdom
Tel: +44 1708 377 731
E-mail: info@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010aa-(cl-4) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
SEN-A4002	Short Circuit Isolating Base	010aa/01
SEN-A4003	Negative Short Circuit Isolator (SEN-A4004 Base)	010aa/05
SEN-A4025	Enhanced Deep Isolating Base (Red)	010aa/08

Base:

SEN-A4004 Addressable base

Certificate No: 010ag-(cl-4) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
SIL-A9099	SIL I.S. Protocol Translator (Single) Note: 1. To ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	010ag/14

Certificate No: 010ah-(cl-7) to EN 54-18: 2005 & EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
SEN-A4044	Analogue Addressable Zone Monitor Unit with Isolator	010ah/05
SEN-A4042	Analogue Addressable Mini Switch Monitor with Isolator	010ah/09
TEN-A6061	Intelligent Switch Monitor (TEN-A9099 Backbox)	010ah/11
TEN-A6065	Intelligent DIN-Rail Switch Monitor (TEN-A9098 DIN Tub)	010ah/12
TEN-A6062	Intelligent Input / Output Unit (TEN-A9099 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13

TEN-A6066	Intelligent DIN-Rail Input / Output Unit (TEN-A9098 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
TEN-A6063	Intelligent Mains Switching Input / Output Unit (TEN-A9099 Backbox)	010ah/19
TEN-A6064	Intelligent Twin Input / Output Unit (TEN-A9099 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
TEN-A6067	Intelligent Twin Switch Monitor (TEN-A9099 Backbox)	010ah/22
SIL-A6061	SIL Input/Output Unit with Isolator	010ah/06

Accessories:

B-9310 Back Box

TEN-A9099 Backbox

TEN-A9098 DIN Tub

Certificate No: 928n-(cl-10) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Product Name	Description	LPCB Ref. No
SW-2210	Wire to Wireless Translator Module	928n/01

Certificate No: 928r-(cl-11) to EN 54-18:2005, EN 54-25:2008

Product Name	Description	LPCB Ref. No
SW-2230	Wireless Conventional System Expander Module	928r/01
SW-2220	Wireless Expander Module	928r/02
SW-6310	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
SW-6210	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

Siemens Switzerland Ltd

Theilerstrasse 1a, Zug, CH-6300 , Switzerland
Website: www.siemens.com

Certificate No: 126bm to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
DC1192	Input/Output Module with Short Circuit Isolator	126bm/02

Accessories:

F50F410 LED flat cable

520379 AC/AC Transformer

FDCH221 Enclosure

FDCM291 Mounting foot

TS35 Standard top hat rail

FDCH221 Housing

Certificate No: 126bp to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
FT2001-A1	Digital Addressable Mimic Display Driver (F50F410, 520379) Note 1: Approved when used with a metal enclosure at least complying with protection class IP30 and weighing at least 4.5kg.	126bp/01
FT2010-A1	Floor Repeater Terminal	126bp/02
FT2011-A1	Floor Repeated Display	126bp/03
FT2010-C1	Floor Repeater Terminal with Flat Rear Panel	126bp/04

Accessories:

F50F410 LED flat cable

520379 AC/AC Transformer

Certificate No: 531h-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
FDCI221	Analogue Addressable Input Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/01
FDCIO221	Analogue Addressable Input / Output Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/02
FDCI361	Analogue Addressable Input Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/03
FDCIO361	Analogue Addressable Input / Output Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/04

Accessories

FDCH221 Enclosure

Certificate No: 531m-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
FDCI222	Analogue Addressable Input Module with Short Circuit Isolator Notes: 1. Approved when used with FDCH221 housing Approved with FDCM291 mounting foot and TS35 standard top hat rail	531m/01

FDCIO222	Analogue Addressable Input/Output Module with Short Circuit Isolator Notes: 1. Approved when used with FDCH221 housing Approved with FDCM291 mounting foot and TS35 standard top hat rail	531m/02
FDCIO223	Addressable Input/Output Module (Transponder) with Short Circuit Isolator Notes: 1. Approved when used in conjunction with housing FDCH221 Approved with FDCM291 mounting foot and TS35 standard top hat rail	531m/03

Accessories

FDCM291 Mounting foot

TS35 Standard top hat rail

FDCH221 Housing

Certificate No: 531n-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
FDCL221	Analogue Addressable Line Separator Note: Approved with TS35 standard top hat rail	531n/01
FDCL221-M	Multi Line Separator Module Notes: 1. Approved when used with FDCH221 housing Approved with FDCM291 mounting foot and TS35 standard top hat rail	531n/02

Accessories

FDCM291 Mounting foot

TS35 Standard top hat rail

FDCH221 Housing

Certificate No: 531r-(cl-1) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
FCA1209-Z1	Output Module	531r/01

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100
Website: www.smsfire.co.uk

Certificate No: 042ba to EN 54-17: 2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
SEN-INT-INPUT	Analogue addressable 1 input interface module with short circuit isolator low voltage (SEN-490 and SEN-492 boxes).	042ba/01
SEN-INT-ACDIN	Analogue addressable 1 output DIN rail mounting interface module with short circuit isolator,	042ba/02

	medium voltage.	
SEN-INT-AC	Analogue addressable 1 output surface mounting interface module with short circuit isolator, medium voltage.	042ba/03
SEN-INT-OUTPUT	Analogue addressable 1 input and 1 output interface module with short circuit isolator, low voltage (SEN-490 and SEN-492 boxes)	042ba/04
SEN-INT-4I0	Analogue addressable 4 input / output interface module with short circuit isolator, low voltage (SEN-490 and SEN-492 boxes)	042ba/05

Accessories:
SEN-490 Plastic Box
SEN-492 Metal Box

Certificate No: 567as-(cl-1) to EN54-18:2005, EN-17:2005 & EN54-4:1997+A1:2002+A2:2006

Product Name	Description	LPCB Ref. No
78302-02NM	S4 ASD Mains Powered Interface Unit with Short Circuit Isolator	567as/01

Sodcks

8 Mogamaa Al-Fardous, Nasar City, Cairo, 11511, Egypt

Certificate No: 1426e-(cl-7) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
CMM750	Addressable I/O Module (CBMM750 Base)	1426e/01
CMM700	Addressable I/O Module (CBMM700 Base)	1426e/02
ZAM900	Addressable Zone Module	1426e/03

Bases:
CBMM750
CBMM700

Certificate No: 1426f-(cl-7) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
ISO800	Loop Isolator (ISOB800 Base)	1426f/01

Base

ISOB800

SVS Buildwel Private Limited

9/C-8, Sector-7, Rohini, New Dehli, 11085, India
Tel: 011-27053918 • Alt Tel: 011-27053818
E-mail: Info@svslifesafety.com

Certificate No: 1330e-(cl-9) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
SHFT81I/OMS	Input/Output Module	1330e/01

Certificate No: 1330f-(cl-9) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
SHFT81IM	Isolator Module	1330f/01
SHFT80IB	Base Mount Short Circuit Isolator	1330f/02

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London, W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010aa-(cl-5) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
5000-500	Syncoln Isolating Base	010aa/01
5000-600	Syncoln Addressable Isolator (5000-601 Base)	010aa/05
45681-518SHA	Deep Isolating Base	010aa/08

5000-601 Syncoln Isolator Base

Certificate No: 010ah-(cl-8) to EN 54-17:2005 & EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
5000-802	Syncoln Addressable Zone Monitor with Isolator	010ah/05
5000-803	Syncoln Addressable Input/Output Unit with Isolator	010ah/06
5000-806	Syncoln Addressable Sounder Control Unit with Isolator	010ah/08
SH1200-110SYN	Intelligent Switch Monitor Unit (45681-400 Backbox)	010ah/11
SH1200-112SYN	Intelligent DIN-Rail Switch Monitor Unit (38532-092 DIN Tub)	010ah/12
SH1200-107SYN	Intelligent Input / Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SH1200-113SYN	Intelligent DIN-Rail Input / Output Unit (38532-092 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
SH1200-109SYN	Intelligent Mains Switching Input / Output Unit (45681-400 Backbox)	010ah/19
SH1200-108SYN	Intelligent Twin Input / Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SH1200-111SYN	Intelligent Twin Switch Monitor Unit (45681-400 Backbox)	010ah/22

45681-400 Backbox

38532-092 DIN Tub

Tanda (UK) Limited

80 Coleman Street, London, EC2R 5BJ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330e-(cl-1) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
TX7210	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-1) to EN 54-17: 2005

Line Units

Product Name	Description	LPCB Ref. No
TX7230	Analogue Addressable Isolator Module	1330f/01
TX7232	Base Mount Short Circuit Isolator	1330f/02

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore, 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330e-(cl-4) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
TX7210	Addressable Single Input/Output Module	1330e/01

Certificate No: 1330f-(cl-4) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
TX7230	Analogue Addressable Isolator Module	1330f/01
TX7232	Base Mount Short Circuit Isolator	1330f/02

Teletek Electronics JSC

14A Srebarna Street, Sofia, 1407, Bulgaria
Tel: +359 2 9694 700
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139g to EN 54-18:2005 & EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
SensoIRIS MIO22	Intelligent Analogue Addressable Fire Alarm Module with 2 Inputs and 2 Outputs with built-in Short Circuit Isolator Module Note: 1. Meets the requirements of BS EN 60529:1992 +A2:2013 at the following IP ratings: a. IP21C when used with IP21C small box TTE.133.01.00	1139g/01

b. IP55 when used with IP55 big box Z74JH PS

Ancillaries

TTE.133.01.00 IP21C Small Box

Z74JH PS IP55 Big Box

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC, 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174g to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
VI-6777	Digital Isolator Interface (VB-6618 base)	1174g/01

Base:

VB-6618 Installation Base

Certificate No: 1174h to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
VI-6717	Digital Monitor Interface (1 Input) (VB-6618 Base)	1174h/01
VI-6727	Digital Control Interface (1 Input & 1 Output) (VB-6618)	1174h/02

Bases

VB-6618 Installation Base

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, 8212, Switzerland
Tel: +44 (0)1462 667700
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681aa-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
4B-I	Short Circuit Isolator Base	681aa/01

Certificate No: 681t-(cl-1) to EN 54-18: 2005

Line Units

Product Name	Description	LPCB Ref. No
FC410CIM	Contact Input Module (FireClass)	681t/02
FC410DIM	Detector Input Module (FireClass)	681t/03
FC410RIM	Relay Interface Module (FireClass)	681t/04
FC410MIM	Mini Input Module (FireClass)	681t/05
FC410SNM	Sounder Notification Module (FireClass)	681t/06

FC410MIO	Small Addressable Multi Input/Output Module (FireClass)	681t/08
HVR800	High Voltage Relay Module Note: 1. For use only with RIM800 relay interface module	681t/01
CIM800	Contact Input Module	681t/02
DIM800	Detector Input Module	681t/03
RIM800	Relay Interface Module	681t/04
MIM800	Mini Input Module	681t/05
SNM800	Sounder Notification Module	681t/06
MIO800	Small Addressable Multi Input/Output Module	681t/08
4090-5210	Contact Input Module (Simplex)	681t/02
4090-5211	Relay Interface Module (Simplex)	681t/04

Ancillaries

M520 Standard indoor enclosure

D800 Outdoor weatherproof enclosure

Certificate No: 681u-(cl-1) to EN 54:18:2005

Line Units

Product Name	Description	LPCB Ref. No
BDM800	Loop Powered Beam Detector Interface Module Note: 1. Approved when used in conjunction with the FIRERAY 2000/50R/100R beam detector and BTM800 terminal module	681u/01
FC410BDM	Loop Powered Beam Detector Interface Module (FireClass) Note: 1. Approved when used in conjunction with the FIRERAY 2000/50R/100R beam detector and BTM800 terminal module	681u/01

Certificate No: 681v-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
DDM800	Detector Driver Module with Short Circuit Isolator Notes: 1. Approved for use with enclosure models M520 and D800 2. The unit is approved when powered from an EN 54-4 approved power source	681v/01
FC410DDM	Detector Driver Module with Short Circuit Isolator (FireClass) Notes: 1. Approved for use with enclosure models M520 and D800 2. The unit is approved when powered from an EN 54-4 approved power source	681v/01
QMO850	Quad Monitored Output Module with Short Circuit Isolator	681v/02
FC410QMO	Quad Monitored Output Module with Short Circuit Isolator (FireClass)	681v/02
QIO850	Quad Input/Output Module with Short Circuit Isolator	681v/03
FC410QIO	Quad Input/Output Module with Short Circuit Isolator (FireClass)	681v/03

QRM850	Quad Relay Module with Short Circuit Isolator	681v/04
FC410QRM	Quad Relay Module with Short Circuit Isolator (FireClass)	681v/04

Ancillaries

M520 Standard indoor enclosure

D800 Outdoor weatherproof enclosure

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174g-(cl-2) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
VG-6777	Addressable Isolator Interface (VG-6618 Base)	1174g/01

Bases

VG-6618 Installation Base

Certificate No: 1174h-(cl-2) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
VG-6717	Addressable Monitor Interface (1 Input) (VG-6618 Base)	1174h/01
VG-6727	Addressable Control Interface (1 Input & 1 Output) (VG-6618 Base)	1174h/02

Bases

VG-6618 Installation base

Vighnaharta Technologies Pvt Ltd.

Survey No. 11/11, Karanjakar Estate, Nanded Gaon, Pune MH-, 411041, India
Tel: +91-9011033259
E-mail: sales@vighnaharta.in • Website: www.vighnaharta.in

Certificate No: 010aa-(cl-6) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
BASE-284TSF	TrueSafe Isolating Base	010aa/01

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL, 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426e(cl-1) to EN 54-18: 2005

Product Name	Description	LPCB Ref. No
VI 200-MIC	Intelligent Addressable Input/Output Module (DZ-9056 Base)	1426e/01
VI 200-MICLP	Addressable I/O Module (DZ-9058 Base)	1426e/02

Bases

DZ-9056

DZ-9058

Certificate No: 1426f-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
VI 200-LI	Loop Isolator Module (DZ-9057 Base)	1426f/01

Base

DZ-9057

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 1255a-(cl-1) to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
SIGA-CC1I	Single Input Signal Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality code 5	1255a/01
SIGA-CC1SI	Auto-Sync Output Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality code 5	1255a/02
SIGA-CC2I	Dual Input Signal Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality code 7	1255a/03
SIGA-CRI	Control Relay Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality code 8	1255a/04
SIGA-CT1I	Single Input Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality codes 3, 4 and 18	1255a/05
SIGA-CT2I	Dual Input Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L	1255a/06

	2. Approved with personality codes 3, 4 and 18	
SIGA-MM1I	Monitor Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality code 3	1255a/07
SIGA-UMI	Universal Class A/B Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality codes 3, 4, 8, 11, 12, 15, 16 and 18	1255a/08
SIGA-IOI	Input Output Control Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality codes 31, 32, 33, 34, 35, 36, 37, 38, 39 and 40	1255a/09

Ancillaries

SIGA-MP1 MP1 Mounting Plate

SIGA-MP2 MP2 Mounting Plate

SIGA-MP2L MP2L Mounting Plate

Certificate No: 1255b-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
SIGA-IM2I	Single Input Signal Isolator Module Note: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2, SIGA-MP2L and Plastic Back Box	1255b/02
SIGA-IMI	Isolator Module Note: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L	1255b/01

Ancillaries

SIGA-MP1 MP1 Mounting Plate

SIGA-MP2 MP2 Mounting Plate

SIGA-MP2L MP2L Mounting Plate

Plastic Back Box

Certificate No: 1255f-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
SIGI-CT1I	Single Input Control Module with Isolation	1255f/01
SIGI-CT2I	Dual Input Control Module with Isolation	1255f/02
SIGI-CRI	Relay Control Module with Isolation	1255f/03
SIGI-CC1I	Single Input Single Module with Isolation	1255f/04
SIGI-CC1SI	Single Input Syncing Signal Module with Isolation	1255f/05

SIGI-CC2I	Dual Input Signal Module with Isolation	1255f/06
SIGI-CC2AI	Dual Input Signal Module with Isolation	1255f/07
SIGI-MM1I	Single Input Monitor Module with Isolation	1255f/08
SIGI-WTMI	Water and Tamper Control Module with Isolation	1255f/09
SIGI-IOI	Single Input Single Output Control Module with Isolation	1255f/10
SIGI-CRHI	High Power Relay Control Module with Isolation	1255f/11

Certificate No: 904g-(cl-1) to EN 54-17:2005

Line Units

Product Name	Description	LPCB Ref. No
SIGA-IB	Analogue Addressable Short Circuit Isolator Base Note: 1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-ISI and SIGA-HRSI	904g/01
SIGA-IB4	Analogue Addressable Short Circuit Isolator Base with trim Note: 1. Certified for use with fire detector models- SIGA-IPHSI, SIGA-PHSI, SIGA-PSI. SIGA-ISI and SIGA-HRSI	904g/02

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning, 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450b to EN 54-18:2005

Line Units

Product Name	Description	LPCB Ref. No
TCMK5263	Addressable Single Input/Output Module	1450b/01
TCMK5269	Addressable Dual Input Module	1450b/02
TCMK5265	Addressable Input/Output Module	1450b/03

Certificate No: 1450f to EN 54-17: 2005

Product Name	Description	LPCB Ref. No
TCMK5260	Loop isolator	1450f/01
TCDZ516	Isolating base	1450f/02

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

WHY USE AN LPS 1014 APPROVED COMPANY?

Even with the best equipment, fire detection and alarm systems are only effective if correctly designed, installed, commissioned and serviced. It is therefore important that specifiers select only competent firms with a proven track record to undertake the work.

LPS 1014 *Requirements for Certificated Fire Detection and Alarm System Firms* meets these requirements in full.

LPS 1014 requires **one** encompassing Certificate of Conformity for the project, i.e. single point responsibility, which benefits all parties concerned, i.e. the insurer, the fire brigade, the building owner, etc. It is based on BS 5839-1 and also requires the use of third party approved products. For each system specifiers should request the issue of an LPCB Certificate of Conformity as part of the contract which:

- certifies that the fire detection and alarm system was designed, installed and commissioned in accordance with the installation rules applied, and
- ensures that the system is recorded by LPCB as a certificated fire detection and alarm installation.

The availability of more varied and sophisticated fire detection and alarm equipment means that it is even more important that firms listed to LPS 1014 are regularly assessed by LPCB for their competence to design, install, commission and service fire detection and alarm systems in accordance with acceptable installation rules or codes of practice.

Additional offices

Where a firm has additional offices, each office must meet the requirements of LPS 1014 to be eligible for certification, and is separately listed.

Provisional Approval

Firms with limited experience and track record can gain Provisional Approval in the LPS 1014 scheme. Their work is closely monitored by LPCB and when they have completed the requisite number of fire detection and alarm systems contracts over a period of not less than 2 years, and subject to satisfactory performance, they will be given full approval and listed in this section of the Red Book.

Aarhus Fire Protection Limited

Aarhus House, 4 Moss Lane, Whitefield, Manchester, M45 6HG, United Kingdom
Tel: +44 (0)161 767 8715
E-mail: response@aarhusfire.co.uk • Website: www.aarhusfire.co.uk

Certificate No: CFA-187 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

ABCA Systems Limited

Cobalt 8, 14 Silver Fox Way, Cobalt Business Park, Newcastle Upon Tyne, NE27 0QJ, United Kingdom
Tel: +44 (0)333 121 0999
E-mail: philip.miller@abcasystems.co.uk

Certificate No: CFA-206 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Includes the following scope:
BS 8629 - Evacuation alert control & indicating equipment

ADT Fire and Security

Tyco Park, Grimshaw Lane, Newton Heath, Manchester, M40 2WL, United Kingdom
Tel: +44 (0)161 252 5500

Certificate No: CFA-109 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Alberta Fire & Security Equipment Limited

Zone 3, Triq San Gwakkin, Central Business District, Birkirkara, CBD 3030, Malta
Tel: +356 21 443538
E-mail: enquiries@alberta.com.mt • Website: www.alberta.com.mt

Certificate No: CFA-177 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Argus Fire Protection Company Limited

Hendglade House, 46 New Road, Stourbridge, West Midlands, DY8 1PA, United Kingdom
Tel: +44 (0)1384 376256
E-mail: info@argusfire.co.uk • Website: www.argusfire.co.uk

Certificate No: CFA-148 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

CAMS Fire & Security PLC

6 Wedgwood Court, Wedgwood Way, Pin Green Industrial Area, Stevenage, Hertfordshire, SG1 4QR, United Kingdom
Tel: +44 (0)1438 740840
E-mail: info@camsfire.co.uk / info@camssecurity.co.uk • Website: www.camssecurity.co.uk/

Certificate No: CFA-190 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Channel Fire Systems Limited

OFFICE 11, Romney Marsh Business Hub, Mountfield Road, New Romney, Kent, TN28 8LH, United Kingdom
Tel: +44 (0)1797 335050
E-mail: info@channelfs.com • Website: www.channelfs.com

Certificate No: CFA-201 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Chubb Fire & Security Ltd t/a Chubb Mechanical

Chubb House, Shadsworth Road, Blackburn, Lancashire, BB1 2PR, United Kingdom
Tel: +44 (0)1254 298706 / 298472
E-mail: UK_QEHS@chubbfs.com • Website: www.chubb.co.uk

Certificate No: CFA-193 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Chubb Fire and Security Limited trading as Vipond Fire Protection

10-12 Glenfield Road, Kelvin Industrial Estate, East Kilbride, Lanarkshire, G75 0RA, United Kingdom
Tel: +44 (0)1355 2375 25/80/88
E-mail: uk_vipondadmin@vipond.co.uk • Website: www.vipondfire.co.uk

Certificate No: CFA-173 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Clymac Limited

Cloudway Court, Belton Road, Loughborough, LE11 1LW, United Kingdom
Tel: +44 (0)1509 232651
E-mail: sales@clymac.co.uk • Website: www.clymac.co.uk

Certificate No: CFA-221 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Commercial Fire Systems Limited

Groud Floor Piercy Works, Piercy Road, Waterfoot, Rossendale, Lancashire, BB4 9JW, United Kingdom
Tel: +44 (0)3331 880 950
E-mail: info@commercialfire-systems.co.uk • Website: www.commercialfire-systems.co.uk

Certificate No: CFA-216 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

CTM Fire & Security Limited trading as Thompson Group Services

Unit 2, Osprey Place, Moss Side Industrial Estate, Leyland, PR26 7EW, United Kingdom
Tel: +44 (0)1772 641226
E-mail: info@thompsongroupservices.com • Website: www.thompsongroupservices.com

Certificate No: CFA-156 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Daemon Fire and Security Limited

Units 1 & 2 Quartz Close, B5K Business Park, Tamworth, Staffordshire, B77 4GR, United Kingdom
Tel: +44 (0)1827 69266
E-mail: sales@daemonfire.co.uk

Certificate No: CFA-145 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Dalkia Scotshield Limited

1 Rutherglen Links, Rutherglen Links Business Park, Glasgow, G73 1DF, United Kingdom
Tel: +44 (0)141 729 8383
E-mail: jim.martin@dalkia.co.uk • Website: www.dalkia.co.uk

Certificate No: CFA-150 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.
(Including the satellite offices for service work only - see additional addresses)

DAS Fire Limited

Unit 13 Campbell Court, Bramley, Tadley, Hampshire, RG26 5EG, United Kingdom
Tel: +44 (0)845 544 2316
E-mail: info@dasfire.com • Website: www.dasfire.com

Certificate No: CFA-207 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Defensor Maintenance Limited trading as Defensor Life Safety Systems

Defensor House, 15 Kingsley Street, Leicester, LE2 6DY, United Kingdom
Tel: +44 (0)116 244 8689
E-mail: G.McCartney@defensorlifesafety.com

Certificate No: CFA-161 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Direction Fire Limited

Unit 5, Fire Quarter, Blenheim Road, Epsom, Surrey, KT19 9QN, United Kingdom
Tel: +44 (0)1372 744499
E-mail: general@directionfire.co.uk • Website: www.directionfire.co.uk

Certificate No: CFA-178 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

EA-RS Fire Engineering Limited

4 Swanbridge Industrial Park, Black Croft Road, Witham, Essex, CM8 3YN, United Kingdom
Tel: +44 (0)1376 503680
E-mail: onesolution@ea-rsfire.com • Website: www.ea-rsfire.com

Certificate No: CFA-182 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

EFT Systems Limited

Cobden House, 39a Cobden Road, Southport, PR9 7TR, United Kingdom
Tel: 01704 229431
E-mail: compliance@eftsystems.co.uk • Website: www.eftgroup.co.uk

Certificate No: CFA-223 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

EMCOR Group (UK) plc, EMCOR UK - Fire and Security

Premier House, Tollgate, Eastleigh, Hampshire, SO53 3YE, United Kingdom
Tel: 0800 085 4659
E-mail: F&S@emcoruk.com • Website: www.emcoruk.com

Certificate No: CFA-151 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Emico Limited

First Floor, Unit 2 Grovelands Business Centre, Boundary Way, Hemel Hempstead, Hertfordshire, HP2 7TE, United Kingdom
Tel: +44 (0)1442 213111
E-mail: contact@emico.co • Website: www.emico.co

Certificate No: CFA-185 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Fire Design Solutions Limited

152-154 London Road, Greenhithe, Dartford, Kent, DA9 9JW, United Kingdom
Tel: +44 (0)1322 387411
E-mail: estimating@fdsuk.com • Website: www.firedesignsolutions.com

Certificate No: CFA-213 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Firetecnics Systems Limited

Firetecnics House, 328 St James's Road, London, SE1 5JX, United Kingdom
Tel: +44 (0) 20 7587 0927
E-mail: info@firetecnics.co.uk • Website: www.firetecnics.com

Certificate No: CFA-146 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

G.B. Electronics Limited trading as GBE Converge

GBEC House, 31 Barnett Way, Barnwood, Gloucester, GL4 3RT, United Kingdom
Tel: +44 (0)8451 220884
E-mail: info@gbeconverge.com • Website: www.gbeconverge.com

Certificate No: CFA-180 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

G4S Secure Solutions (UK) Limited trading as G4S Fire Security Systems (UK)

12 Heron View, Airport Road West, Belfast, BT3 9LN, Ireland
Tel: +44 (0)844 811 0016
E-mail: firesecurityenquiries@g4s.com • Website: www.g4s.com

Certificate No: CFA-220 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Global Fire Systems Limited trading as Global Fire & Security Systems

15 The Triangle, NG2 Business Park, Queens Drive, Nottingham, NG2 1AE, United Kingdom
Tel: +44 (0)870 220 8211
E-mail: g.shillingford@globalfireandsecurity.co.uk • Website: www.globalfireandsecurity.co.uk

Certificate No: CFA-189 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Hall and Kay Fire Services Limited trading as Hall & Kay Fire Engineering (Ascot)

Unit E - Science Park, Silwood Business Park, Ascot, Berkshire, SL5 7PW, United Kingdom
Tel: +44 (0)1344 203800
E-mail: ascot@hkfire.co.uk • Website: www.hkfire.co.uk

Certificate No: CFA-147 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Harmony Fire Limited

Clarence House, Watercombe Lane, Lynx Trading Estate, Yeovil, Somerset, BA20 2SU, United Kingdom
Tel: +44 (0)1963 361250
E-mail: info@harmonyfire.co.uk • Website: www.harmonyfire.co.uk

Certificate No: CFA-211 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Hawk-Fire Limited

MacMillan House, Paddington Station, London, W2 1FT, United Kingdom
Tel: 0207 387 1268
E-mail: Nick.Moore@hawk-fire.com • Website: www.hawk-fire.com

Certificate No: CFA-224 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

HESIS Limited

Spinnaker House, 141 Sefton Street, Liverpool, Merseyside, L8 5SN, United Kingdom
Tel: +44 (0)151 707 3222
E-mail: info@hesis.co.uk • Website: www.hesis.co.uk

Certificate No: CFA-218 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Honeywell Control Systems Limited trading as Honeywell Building Solutions

Honeywell House, Skimped Hill Lane, Bracknell, Berkshire, RG12 1EB, United Kingdom
Tel: +44 (0)1344 656000
E-mail: cfserviceadminfire@honeywell.com • Website: www.honeywell.com

Certificate No: CFA-214 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

IC Service & Maintenance Limited

Unit K3 Temple Court, Knights Park, Knight Road, Strood, Kent, ME2 2LT, United Kingdom
Tel: +44 (0)1634 290300
E-mail: sales@icservice.uk.com • Website: www.icservice.uk.com

Certificate No: CFA-158 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Indigo Systems Limited

2A Croham Road, South Croydon, Surrey, CR2 7BA, United Kingdom
Tel: +44 (0)208 681 1616
E-mail: lee@indigosystems.ltd.uk • Website: www.indigosystems.ltd.uk

Certificate No: CFA-203 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Integrated Fire Safety Systems Limited

26 Nightingale Crescent, Leatherhead, Surrey, KT24 6PD, United Kingdom
Tel: +44 (0)1483 673173
E-mail: info@IFSSystems.co.uk • Website: www.ifssystems.co.uk

Certificate No: CFA-212 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Kingfisher Security (UK) Limited trading as Kingfisher Fire & Security

1 Riverside Industrial Estate, Dogflud Way, Farnham, GU9 7UG, United Kingdom
Tel: +44 (0)1252 710809
E-mail: info@kingfishersecurity.co.uk • Website: www.kingfishersecurity.co.uk

Certificate No: CFA-176 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Lloret Fire Solutions Limited

Lloret House, Ullswater Crescent, Coulsdon, Surrey, CR5 2HR, United Kingdom
Tel: +44 (0) 208 410 4600
E-mail: info@lloret.co.uk • Website: www.lloret.co.uk

Certificate No: CFA-181 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Lynch (I.E.I.) Limited

1 Barnet Hill, Barnet, Hertfordshire, EN5 5YS, United Kingdom
Tel: +44 (0) 208 449 1105
E-mail: Andy.tang@lynchiei.com • Website: www.lynchiei.com

Certificate No: CFA-210 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

MECE Fire & Security Limited

Unit 12 Rochester Trade Park, Maidstone Road, Rochester, Kent, ME1 3QY, United Kingdom
Tel: +44 (0)1634 260607
E-mail: enquiries@mecefireandsecurity.co.uk • Website: www.mecefireandsecurity.co.uk

Certificate No: CFA-159 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Mercury Engineering

Mercury House, Sandyford Industrial Estate, Foxrock, Dublin 18, D18 XH79, Ireland
Tel: +353 1 216 3000
E-mail: fireprotection@mercuryeng.com • Website: www.mercuryeng.com

Certificate No: CFA-174 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

PHF Fire Limited

Unit 16, Twyford Business Centre, London Road, Bishops Stortford, Hertfordshire, CM23 3YT, United Kingdom
Tel: +44 (0)1279 659125
E-mail: paul@phffire.com • Website: www.phffire.com

Certificate No: CFA-208 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Protec Fire Detection plc

Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT, United Kingdom
Tel: +44 (0)1282 717171
E-mail: sales@protec.co.uk • Website: www.protec.co.uk

Certificate No: CFA-132 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Pyrotec Fire Protection Limited

Unit 8, Caburn Enterprise Park, The Broyle, Ringmer, East Sussex, BN8 5NP, United Kingdom
Tel: +44 (0)1273 812376
E-mail: sales@pyrotec.co.uk • Website: www.pyrotec.co.uk

Certificate No: CFA-202 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Reed M & E Limited

1st Floor, Ashley Park House, 42-50 Hersham Road, Walton-on-Thames, Surrey, KT12 1RZ, United Kingdom
Tel: +44 (0)20 8397 2161
E-mail: robert@reedme.org.uk • Website: www.reedme.org.uk

Certificate No: CFA-196 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Senseco Systems Limited

6 Ambley Green, Bailey Drive, Gillingham Business Park, Gillingham, Kent, ME8 0NJ, United Kingdom
Tel: +44 (0)845 644 2888
E-mail: sales@sensecosystems.com • Website: www.sensecosystems.com

Certificate No: CFA-198 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Sensetech Systems Limited

Unit 4, Level 3, 93 Great Suffolk Street, London, SE1 1BX, United Kingdom
Tel: +44 (0)845 689 9099
E-mail: info@sensetechsystems.co.uk • Website: www.sensetechsystems.co.uk

Certificate No: CFA-184 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Siemens Plc, Smart Infrastructure (Regional Solutions & Service)

Pinehurt 2, Pinehurt Road, Farnborough, Hampshire, GU14 7BF, United Kingdom
Tel: +44 (0)1276 696111
E-mail: sales.uk.sbt@siemens.com • Website: www.siemens.co.uk/buildingtechnologies

Certificate No: CFA-100 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Spectrum Fire Protection (UK) Limited

Middlemore Lane, Aldridge, Walsall, West Midlands, WS9 8SP, United Kingdom
E-mail: enquiries@spectrumfire.co.uk • Website: www.spectrumfire.co.uk

Certificate No: CFA-217 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Static Systems Group Limited

Heath Mill Road, Wombourne, Staffordshire, WV5 8AN, United Kingdom
Tel: +44 (0)1902 895551
E-mail: QA@staticsystems.co.uk • Website: www.staticsystems.co.uk

Certificate No: CFA-135 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

T V F (UK) Limited

59-69 Queens Road, High Wycombe, Buckinghamshire, HP13 6AH, United Kingdom
Tel: +44 (0)1494 450641
E-mail: customer.service@tvfltd.co.uk • Website: www.tvfltd.co.uk

Certificate No: CFA-128 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

TClarke Contracting Limited

Level 2, 30 St Mary Axe, London, EC2A 8BF, United Kingdom
Tel: +44 (0)207 997 7400
E-mail: info@tclarke.co.uk • Website: www.tclarke.co.uk

Certificate No: CFA-188 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Tew Plus Limited trading as LB Foster Specialist Services

1st Floor, 44-46 Sekforde Street, Farringdon, London, EC1R 0HA, United Kingdom
Tel: +44 (0)203 995 5055
E-mail: Dstark-ext@lbfoster.com • Website: www.lbfoster.eu/en/telecoms

Certificate No: CFA-215 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Thameside Fire Protection Co. Limited

Unit 4, Sovereign Park, Cranes Farm Road, Basildon, Essex, SS14 3JD, United Kingdom
Tel: +44 (0)1268 597999
E-mail: darko.petrovic@thamesidefire.co.uk • Website: www.thamesidefire.co.uk

Certificate No: CFA-171 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Tri Management Limited

4 Park Parade, Park Road, Farnham Royal, Buckinghamshire, SL2 3AU, United Kingdom
Tel: +44 (0)8443 350187
E-mail: info@triman.co.uk • Website: www.triman.co.uk

Certificate No: CFA-204 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Trinity Fire & Security Systems Limited

Little Bridge Business Park, Oil Mill Lane, Clyst St Mary, Exeter, Devon, EX5 1AU, United Kingdom
Tel: +44 (0)1392 874455
E-mail: info@trinitypro.co.uk • Website: www.trinityfireandsecurity.com

Certificate No: CFA-160 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Trinity Fire and Security Systems Ltd (Abingdon)

Central Hub, 9E Nuffield Trade Park, Nuffield Way, Abingdon, Oxfordshire, OX14 1RN, United Kingdom
Tel: +44 (0)1235 862456
E-mail: info@trinitypro.co.uk • Website: www.trinityfireandsecurity.com

Certificate No: CFA-168 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Trinity Fire and Security Systems Ltd (Diseworth)

West Acre, The Walnut Yard, Gelscoe Lane, Diseworth, Derbyshire, DE74 2AN, United Kingdom
Tel: +44 (0)1926 485080
E-mail: info@trinitypro.co.uk • Website: www.trinityfireandsecurity.com

Certificate No: CFA-167 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Unit 1 West Point Row (Ground Floor), Great Park Road, Bristol, BS32 4QG, United Kingdom
Tel: +44 (0)1454 240071
E-mail: susan.bambridge@jci.com • Website: www.tycofis.com

Certificate No: CFA-170 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Security House, The Summit, Hanworth Road, Sunbury on Thames, Middlesex, TW16 5DB, United Kingdom
Tel: +44 (0)1753 574111
Website: www.tycofis.com

Certificate No: CFA-157 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Building 8, Quinton Business Park, Birmingham, West Midlands, B32 1AF, United Kingdom
Tel: +44 (0)121 255 6000
Website: www.tycofis.com

Certificate No: CFA-103 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

VRTL (Holdings) Limited trading as Grainger Fire & Security

Unit 1A Newton Court, Wavertree Technology Park, Liverpool, L13 1EJ, United Kingdom
Tel: +44 (0)151 220 4068
E-mail: enquiries@grainger-fire.co.uk

Certificate No: CFA-125 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

Zone Systems Limited

Global House, 60 Westcliffe Road, Ruskington, Lincolnshire, NG34 9AY, United Kingdom
Tel: +44 (0)1526 833999
E-mail: sales@zonesystems.co.uk • Website: www.zonesystems.co.uk

Certificate No: CFA-194 to LPS 1014

Design, install, commissioning & maintenance of fire detection & alarm systems.

MANUAL CALL POINTS

The purpose of a manual call point is to enable a person discovering a fire to initiate the operation of a fire alarm system so that appropriate measures can be taken. Therefore it is important for the manual call point to be recognizable and simple to use. For this reason, the European standard has attempted to standardise their appearance and function.

There are basically two types of manual call points which are related to the method of operation.

- Type A: direct operation (single action).
- Type B: indirect operation (double action).

Both types require the breaking or the visible displacement by change of position of a frangible element forming part of the front face.

Guidance on the selection, siting and speed of response should be sought from the applicable installation rule or code of practice (e.g. BS 5839-1). For example BS 5839-1 recommends only type A with a speed of evacuation signal within 3 seconds. Other codes of practice, may require a type B installation.

This section lists manual call points approved for use in fire detection and fire alarm systems in buildings. The initial approval and continued approval processes for manual call points are outlined in scheme document SD041.

Products listed in this section have been approved to:

- EN 54-11 *Manual call points*
- EN 54-25 *Components using radio links*
- ISO 7240-11 *Manual call points*

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

5063 Commercial Circle, Concord, CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426d-(cl-6) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
PYR-FA-CHA-MCP	Addressable Manual Call Point (Branded as Pyronics)	1426d/01

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne, NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928h-(cl-5) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
AXIS-CP	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-	928h/02

	Transparent hinged cover and FMP-303 Flush Fitting Bezel)	
AXIS-WCP	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Certificate No: 928p-(cl-1) to EN 54-11:2001+A1:2005, EN 54-25:2008

Manual Call points

Product Name	Description	LPCB Ref. No
AXIS-RCP	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover)	928p/02
	Note:	
	This device must be used with the following battery only:	
	CR123A (3Vdc) Batteries	

Ancillaries

ALCI- Transparent hinged cover

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928h-(cl-3) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
AV411AL	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AV411ALE	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Certificate No: 928p-(cl-2) to EN 54-11:2001+A1:2005, EN 54-25:2008

Manual Call points

Product Name	Description	LPCB Ref. No
AVW411AL	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover)	928p/02
	Note:	
	This device must be used with the following battery only:	

CR123A (3Vdc) Batteries

AGNI Devices PVT Ltd

B-21, DDA Keshopur Industrial Area, Vikas Puri, New Delhi, 110018, India
Tel: +91 11 28335624
E-mail: info@agnidevices.com

Certificate No: 1330g-(cl-8) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
FL-433/MCP	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174d-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
SC-6653	Conventional Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174d/01
SI-6657	Addressable Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174d/02

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506d-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
OM-0217	Conventional Type A Indoor Surface/Flush Mounting Manual Call Point Note: 1. Approved for surface mount use when used with the AHMB-0217 back box	506d/01

Accessories:

AHMB-0217 Back box for surface mounting

Ampac Pty Ltd

7 Ledgar Road, Balcatta, 6021, Australia
Tel: +618 (9242) 3333
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010bh-(cl-4) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SA5900-908AMP	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/01

43785-278 Mounting Bracket

43785-279 Back Box

Certificate No: 010w to EN 54-11:2001, EN 54-17:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
213-0051	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/01
58100-951AMP	Discovery analogue addressable waterproof manual call point with short circuit isolator	010w/06

43785-278 Mounting Bracket
43785-279 Back Box

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412
E-mail: enquiries@apollo-fire.co.uk

Certificate No: 010au to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
55400-894	Alarmsense Type A Indoor Manual Call Point (43785-278 Mounting Bracket and 43785-279 Back Box)	010au/14

Bases

38532-008 Back Box

43785-278 Mounting Bracket

43785-279 Back Box

Certificate No: 010av to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
58200-971	Discovery Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator	010av/03

Certificate No: 010bh to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SA5900-908	Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/01
SA5900-928	Intelligent Analogue Addressable Marine Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/03
SA5900-908	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/05
SA5900-928	Intelligent Analogue Addressable Type A Indoor Marine Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/06

Bases

38532-008 Back Box

43785-278 Mounting Bracket

43785-279 Back Box

Certificate No: 010n to EN 54-11: 2001

Manual Call points

Product Name	Description	LPCB Ref. No
55100-905	XP95 Analogue addressable manual call point with surface mounting box	010n/02
58100-910	Discovery Analogue addressable manual call point with surface mounting box	010n/06
58100-950	Discovery Analogue addressable waterproof manual call point	010n/08
55100-940	XP95IS Analogue addressable intrinsically safe manual call point.	010n/09
58100-950PRC	Discovery Analogue Addressable Waterproof Manual Call Point	010n/08
55100-940PRC	XP95 IS Analogue Addressable Intrinsically Safe Manual Call Point	010n/09

Bases

38532-008 Back Box

43785-278 Mounting Bracket

43785-279 Back Box

Certificate No: 010w to EN 54-11: 2001 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
55100-908 XP95	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/01
58100-908 Discovery	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/03
58100-951 Discovery	Analogue addressable waterproof manual call point with short circuit isolator	010w/06
58100-908SIL	Discovery Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/03
58100-908PRC	Discovery Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/03

Bases

38532-008 Back Box

43785-278 Mounting Bracket

43785-279 Back Box

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy
Tel: +39 (0) 402821110
E-mail: agregori@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928h to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
ALCP100	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02

AI-CPW-R-01	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Certificate No: 928p to EN 54-11:2001+A1:2005, EN 54-25:2008

Manual Call points

Product Name	Description	LPCB Ref. No
SGCP200	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries

ALCI- Transparent hinged cover

Armor Safety & Security Ltd

120 Baker Street, London, W1U 6TU, United Kingdom
Tel: +971506531199
Website: www.armorsafety.org

Certificate No: 928h-(cl-13) to EN 54-11:2001 + A1: 2005, EN 54-17:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
ARM-ALCP100	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
ARM-WCP	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire, NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426d-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
AW-D305	Addressable Manual Call Point	1426d/01

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna, 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571d to EN 54-11:2001 + A1:2005 & EN 54-25:2008

Manual Call points

Product Name	Description	LPCB Ref. No
ARF-WL8-CP	Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01
EK-WL8-CP	(EKHO Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01
KM-WL8-CP	(K-Mesh Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01

Certificate No: 1825a-(cl-1) to EN 54-11: 2001 + A1: 2005, EN 54-25:2008

Manual Call Points

Product Name	Description	LPCB Ref. No
ARC-WL8-CP	Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825a/01
EK-WL8-CP	(EKHO Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825a/01
KM-WL8-CP	(K-Mesh Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary – CR123A (3V) - Secondary – CR2032 (3V)	1825a/01

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
Tel: +971 4 3262730
E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154q to EN 54-11:2001 + A1:2005, EN 54-25:2008

Manual Call points

Product Name	Description	LPCB Ref. No
WLCP100X	Velox Wireless Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	1154q/01

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI- Transparent hinged cover

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post, Thottappuzhassery, Pullada, Pathanam Thitta, Kerala, 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450e-(cl-3) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
BKG400	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174d-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
B61-5101	Conventional Resettable Type A Indoor Manual Call Point	1174d/01

Certificate No: 1330g-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
IGN-8401	Intelligent Analogue Addressabke Type A Indoor Surface Mounted Manual Call Point	1330g/01

Ceasefire Industries Private Limited

E6, Selaqui Industrial Area, Dehradun, Uttarakhand, 248011, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928h-(cl-12) to EN 54-11: 2001 + A1: 2005 & EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
TI-002431	Analogue Addressable Type A Indoor Re-Settable Manual Call Point with Short Circuit Isolator (ALCI- Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Certificate No: 928p-(cl-9) to EN 54-11 : 2001 + A1 :2005 & EN 54-25: 2008

Product Name	Description	LPCB Ref. No
TI-002347A	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: - CR123A (3Vdc) Batteries	928p/02

Ancillaries

SR01 Surface Mount Back Box

ALCI Transparent hinged cover

FMP-303 Flush Fitting Bezel

Ceasefire Industries Pvt. Ltd

B1/H1 2nd Floor, Mohan Cooperative Industrial Estate, Mathura Rd, New Delhi, Delhi, 110044, India
Tel: +91 120 4255800
E-mail: amit@ceasefire.in • Website: www.ceasefire.in

Certificate No: 959a-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
TI-002269	Conventional Type A Indoor Manual Call Point	959a/01

Ancillaries

CALL-105_A Back box for wall mounting

CALL-190_A Wall Mount Plate (60mm) for semi-flush mounting

CALL-125_A Safety cover

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire, WN5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176h to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
CA470	Type A Indoor Addressable CAST Manual Call Point with Short Circuit Isolator	176h/01

Accessories:

Red Single Gang Back Box

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport, SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010bh-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SA5900-908IMC	Intelligent Addressable Manual Call Point with Short Circuit Isolator (43785-278 Mounting Bracket and 43785-279 Back Box)	010bh/01

Accessories:

43785-278 Mounting Bracket

43785-279 Back Box

SR Surface mounting plastic box

SR1T Surface mounting plastic box c/w 1 terminal

SR2T Surface mounting plastic box c/w 2 terminals

SR3T Surface mounting plastic box c/w 3 terminals

SR4T Surface mounting plastic box c/w 4 terminals

MR Surface mounting metal box

ETT European Terminal Tray ETT1, 2 & 3

L Earth Continuity Link

BZR/1 Bezel Type 1

BZR/2 Bezel Type 2

BZR/3 Bezel Type 3

M141W Spacer Piece

PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE

C Hinged Cover

Certificate No: 176h-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
CA470/CON	Type A Indoor Addressable CAST Manual Call Point with Short Circuit Isolator	176h/01

CA470/CON Red Single Gang Back Box

Certificate No: 567av-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
MCP1A-525IMC	Indoor Surface/Flush Mounting Conventional Call Point	567av/01

Accessories:

43785-278 Mounting Bracket

43785-279 Back Box

SR Surface mounting plastic box

SR1T Surface mounting plastic box c/w 1 terminal

SR2T Surface mounting plastic box c/w 2 terminals

SR3T Surface mounting plastic box c/w 3 terminals

SR4T Surface mounting plastic box c/w 4 terminals

MR Surface mounting metal box

ETT European Terminal Tray ETT1, 2 & 3

L Earth Continuity Link

BZR/1 Bezel Type 1

BZR/2 Bezel Type 2

BZR/3 Bezel Type 3

M141W Spacer Piece

PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE

C Hinged Cover

DEF..

9, rue du Saule Trapu, MASSY, 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1549c-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
LDMA	Addressable Resettable Type A Indoor Manual Call Point with Short Circuit Isolator	1549c/01
LDMA-IP	Addressable Resettable Type A Outdoor Manual Call Point with Short Circuit Isolator	1549c/02

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia, 23834, USA
Tel: 804-417-2244
E-mail: marketing@detectfire.info • Website: http://detectfire.info/

Certificate No: 506d-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
DF-610-CCP	Conventional Type A Outdoor Manual Call Point Note: 1. Approved for surface mount use when used with the AHMB-0817 back box	506d/02

AHMB-0817 Back box for surface mounting

Detectomat Systems GmbH..

An der Strusbek 3, Ahrensburg, Hamburg, 22926, Germany
Tel: +49 41 02 21 14 60
E-mail: zulassung@detectomat.com

Certificate No: 1549c-(cl-2) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
DMA15	Addressable Resettable Type A Indoor Manual Call Point with Short Circuit Isolator	1549c/01

Dorman Smith Technologies Limited

8 Swinbourne Drive, Braintree, Essex, CM7 2YG, United Kingdom
Tel: +44 (0) 844 225 1063
E-mail: jagdish@dormansmith-tech.com

Certificate No: 928h-(cl-16) to EN 54-11:2001 + A1:2005, EN 54-17: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
DFI7/MCP	Type A Indoor Resettable Call Point with Short Circuit Isolator (ALCI- Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02

ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, Gwent, NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 378c to EN 54: Part 11: 2001

Manual Call Points

Product Name	Description	LPCB Ref. No
CXL/GP/R/WP	Conventional type A glass or plastic re-settable indoor/outdoor manual call point	378c/04
CXL/GP/R/BB	Conventional type A glass or plastic re-settable indoor manual call point, with surface mount back box	378c/05
CXL/GP/R/WP	Conventional type A glass or plastic re-settable indoor/outdoor manual call point	378c/06
MBG914	Conventional Type A Indoor Manual Call Point with 470R Resistor and 4V7 Zener Diode	378c/07
CX201	Conventional Type A Indoor Manual Call Point with 680R Resistor	378c/07
FX201	Conventional Type A Indoor Manual Call Point with 680R Resistor	378c/07
MBG917	Conventional Type A Weatherproof Manual Call Point with 470R Resistor and 4V7 Zener Diode	378c/08
CX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378c/08
FX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378c/08

Certificate No: 378d-(cl-1) to EN 54-11:2001+A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
CBG 370S (Cooper)	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
MBG813 (Menvier)	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
FXN501 (JSB)	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
CBG 370WP (Cooper)	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
MBG817 (Menvier)	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
FXN503 (JSB)	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
CBG 370-O	Addressable Type A Glass Indoor Manual Call Point, Flush Mounted	378d/13
CBG 370WP-O	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/14

Certificate No: 378j to EN 54-11:2001+A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
MBG917	Conventional Type A Weatherproof Manual Call Point with 470R Resistor and 4V7 Zener Diode	378j/02
CX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378j/02
FX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378j/02

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham, B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331d-(cl-1) to EN 54-11: 2001 + A1: 2005

Product Name	Description	LPCB Ref. No
MAGDUOCP	MAGDUO Conventional Type A Indoor Manual Call Point	331d/03
MAGDUOCPIP65	MAGDUO Conventional Type A Outdoor Manual Call Point	331d/04

Accessories

For indoor devices

45-0079-205 Standard Backbox

25-0078-205 Bezel

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates
Tel: +971 6 5340300
E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506d to EN 54-11: 2001 + A1: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
FX-0217	Conventional indoor surface/flush mounting manual call point *Note: Approved for surface mount use when used with the AHMB-0217 back box*	506d/01

Accessories:

AHMB-0217 back box for surface mounting

EPITOME TRADING AND CONTRACTING

C-Ring Road, Cinema Signal, Ali Bin Jabor Complex, Doha, 203197, Qatar
Tel: +97430300467
E-mail: amr@epitometc.com

Certificate No: 1174d-(cl-8) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
FS-C330	Conventional Resettable Type A Indoor Manual Call Point	1174d-(cl-8)

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire, PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213m to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
200-500A	Odyssey Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	1213m/03
100-2203V	Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI- Transparent hinged cover and FMP-303 Flush Fitting Bezel)	1213m/04
100-2204V	Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	1213m/05

Ancillaries

43785-278 Mounting Bracket

43785-279 Back Box

ALCI Transparent hinged cover

FMP-303 Flush Fitting Bezel

Everday Technology Co. Limited

No, .95., Sec. 2., Ligong 1 St. Road., Letzer Industrial Park, Yilan County 26841, Taiwan ROC
Tel: +886 3 990 6099
E-mail: alex.hsieh@everday.com • Website: www.everday.com

Certificate No: 512f to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
EM921	Conventional manual call point with LED	512f/01
EM921-F	Conventional manual call point with flashy LED	512f/02
EM921-TC	Convetnional manual call point with LED and transparent cover	512f/03
EM921-FTC	Conventional manual call point with flashy LED and transparent cover	512f/04

Accessories:

EM921B1 Regular mounting base, 28mm

EM921B2 High mounting base, 40mm

EM921B3 High mounting base, 55m

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Torfaen, NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331d to EN 54-11:2001+A1:2005

Product Name	Description	LPCB Ref. No
400-0006	Zeon Conventional Type A Indoor Manual Call Point	331d/01
400-0007	Zeon Conventional Type A Outdoor Manual Call Point	331d/02
402-0006	Twinflex Conventional Type A Indoor Manual Call Point	331d/03
402-0007	Twinflex Conventional Type A Outdoor Manual Call Point	331d/04

Accessories

For indoor devices

45-0079-205 Standard backbox

25-0078-205 Bezel

Certificate No: 331e to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
403-0006	Sita analogue addressable Type A indoor manual call point with short circuit isolator	331e/01
403-0007	Sita analogue addressable Type A outdoor manual call point with short circuit isolator	331e/02

Accessories

for indoor devices

45-0079-205 Standard backbox

25-0078-205 Bezel

Finder Yangin Güvenlik Elektronik Sistemler A.S

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 221 40 07
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450e-(cl-1) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
FF CP500	Intelligent Addressable Type A Re-settable Manual Call Point	1450e/01

Certificate No: 928h-(cl-1) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
FF VB200A	Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI- Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02

Ancillaries

SR01 Surface mounting box

Flush mounting plate

Deep back box

Safety cover

Wall flush mount plate (white only) and external trim frame (white only)

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174d-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
FST-6657	Addressable Resettable Type A Indoor Manual Call Point (branded as FST)	1174d/02

Fireguard Safety Equipment Co Ltd

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands, WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 512f-(cl-1) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
Fireguard FG921-FTC	Conventional manual call point with flashy LED and transparent cover	512f/04

Accessories:

Fireguard FG921B1 Regular mounting base, 28mm

Fireguard FG921B2 High mounting base, 40mm

Fireguard FG921B3 High mounting base, 55m

Ancillaries:

SR01 Surface mounting box

Flush mounting plate

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, HP11 2NF, United Kingdom
Tel: 00971 653 40300
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548g-(cl-3) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No

FX9204E	Conventional Innovation Type A Manual Call Point, Surface and Flush Mounting	548g/07
FX9204EI	Digital Addressable Type A Manual Call Point, Surface and Flush Mounting	548g/08

Frontier Safety Ltd UK

85 Great Portland Street, London, England, W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 991h-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
EC0020	Addressable Type A Indoor Re-Settable Manual Call Point with Short Circuit Isolator	991h/01

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042bq to EN 54-11:2001 +A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
S4-34800	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (S4-34895 surface mount back box) Note: Approved for use with glass non re-settable element	042bq/01
S4-34842	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator & Protective Cover (S4-34895 surface mount back box) Note: Approved for use with glass non re-settable element	042bq/02
S4-34805	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (S4-34895 surface mount back box) Note: Approved for use with plastic re-settable element	042bq/03
S4-34845	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator & Protective Cover (S4-34895 surface mount back box) Note: Approved for use with plastic re-settable element	042bq/04
S4-34805-EP	Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (MIM1Z003.0 Surface Mounting Base) Note: 1. Approved for use with plastic re-settable element	042bq/05

Ancillaries

S4-34895 surface mount back box

MIM1Z003.0 Surface Mounting Base

Also at:
Sherburn Enterprise Park, Enterprise Way, Sherburn-in-Elmet, North Yorkshire, LS25 6NA, United Kingdom

Certificate No: 567av-(cl-2) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
XENS-850	Indoor flush mounting conventional call point	567av/01
XENS-805	Indoor surface mounting conventional call point	567av/01
XENS-801	Indoor surface mounting conventional call point	567av/05
XENS-829	Outdoor surface mounting conventional call point	567av/09

Ancillaries

S4-34895 surface mount back box

MIM1Z003.0 Surface Mounting Base

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London, W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330g-(cl-5) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
GA7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province, 066004, China
Tel: +86 0335 8502434
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548g to EN 54-11: 2001 + A1: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
DC-9204E	Conventional Innovation Manual Call Point, Surface and Flush Mounting	548g/07
DI-9204E	Digital Addressable Manual Call Point, Surface and Flush Mounting	548g/08
DC-9204E-HK	Conventional Innovation Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/09
DI-9204E-HK	Digital Addressable Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/10

Accessories:

D-92FC Transparent cover

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164j to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
SCP-DPS	Intelligent Analogue Addressable Type A Indoor Manual Call Point	164j/06
SCP-W(DPS)	Intelligent Analogue Addressable Type A Weatherproof Manual Call Point	164j/07

Accessories:

SR Surface mounting plastic box - indoor models only

SR1T Surface mounting plastic box c/w 1 terminal

SR01 Surface mount back box

CALL-105_A Back Box for Wall Mounting

CALL-190_A Wall Mount Plate (60mm) for semi-flush mounting

CALL-125_A Safety Cover

Certificate No: 164r to EN 54-11:2001+A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
HCP-E(SCI)	Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator (SR Mounting Box)	164r/01
HCP-W(SCI)	Weatherproof Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator	164r/02
HCP-E(DPS)-SCI	Type A Indoor Dual Pole Switching Intelligent Addressable Call Point with Short Circuit Isolator (SR-1T Mounting Box)	164r/03
HCP-W(DPS)-SCI	Type A Outdoor Dual Pole Switching Intelligent Addressable Weatherproof Call Point with Short Circuit Isolator	164r/04
ICP-E(SCI)	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (CALL-105_A, CALL-190_A, CALL-125_A)	164r/05
ICP-W(SCI)	Weatherproof Intelligent Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (CALL-105_A, CALL-190_A, CALL-125_A)	164r/06
HCP-E(HFP)-SCI	Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator (SR Mounting Box)	164r/01
HCP-W(HFP)-SCI	Weatherproof Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator	164r/02

Ancillaries

SR Surface mounting plastic ox Indoor models only

SR-1T Surface mounting box with cable screen terminal

CALL-105_A Back Box for Wall Mounting

CALL-190_A Wall Mount Plate (60mm) for semi-flush mounting

CALL-125_A Safety Cover

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA, United Kingdom

Certificate No: 567av-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
CCP-E	Indoor Surface/Flush Mounting Conventional Manual Call Point	567av/01
CCP-W	Outdoor Surface Mounting Conventional Manual Call Point	567av/09

Accessories

SR Surface mounting plastic box
SR1T Surface mounting plastic box c/w 1 terminal
SR2T Surface mounting plastic box c/w 2 terminals
SR3T Surface mounting plastic box c/w 3 terminals
SR4T Surface mounting plastic box c/w 4 terminals
MR Surface mounting metal box
ETT European Terminal Tray ETT1, 2 & 3
L Earth Continuity Link
BZR/1 Bezel Type 1
BZR/2 Bezel Type 2
BZR/3 Bezel Type 3
M141W Spacer Piece
PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE

Honeywell International (India) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon - 122 004, Haryana, India
Tel: +91 124 4752700
E-mail: amrish.sharma@honeywell.com • Website: www.systemsensor.com

Certificate No: 550h-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
HW-MCP-GLASS	Addressable Type A Indoor Manual Call Point	550h/05

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana, 122004, India
Tel: +91 124 4752700
E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550h-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
HM-MCP-GLASS	Addressable Type A Indoor Manual Call Point	550h/04

Certificate No: 567av-(cl-4) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
HM-MCP-GLASS-AP	Addressable Type A Manual Call Point Note: 1. Communication software protocol (05)	567av/08

Honeywell Products and Solutions Sàrl, Trading as KAC

Zone d'Activites la Pièce 16, Rolle, 1180, Switzerland
Tel: +44 (0) 116 246 2134
E-mail: sales@kac.co.uk OR marketing@kac.co.uk • Website: www.kac.co.uk

Certificate No: 550h to

Product Name	Description	LPCB Ref. No
MCP2A-R470FF/01	Conventional Type A Indoor Flush Mounted Flexible Element Manual Call Point	550h/02
MCP2A-R470SF/01	Conventional Type A Indoor Surface Mounted Flexible Element Manual Call Point	550h/03

Certificate No: 567av-(cl-1) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
MCP1A-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point	567av/01
MCP1B-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/02
MCP2A-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/03
MCP2B-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/04
MCP3A-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/05
MCP4A-R000xx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/06
MCP5A-RP01wwxx-yyyy-zz	Indoor surface/flush mounting addressable call point Advanced Protocol (and System Sensor 500 series protocol)	567av/07
MCP5A-RP03wwxx-yyyy-zz	Indoor surface/flush mounting addressable call point Advanced Protocol (and Honeywell 500 series protocol) *Notes:* *1. ww (Range 0-99 odd numbers only) indicates the communication software protocol* *2. ww**X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted, **P**=Pattress mounted, **1-4**= Surface* *mounted with 1-4 terminals)* *3. x**G** (Glass element) x**F** (Flexible element)* *4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code.* *Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on* *the product label* *5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *6. IS indicates the intrinsically safe version.*	567av/08
WCP1A-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/09
WCP1B-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/10
WCP2A-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/11
WCP2B-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/12
WCP3A-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/13
WCP4A-R000Sx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/14
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and System Sensor 500 series protocol)	567av/15
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and Honeywell 500 series protocol) *Notes:*	567av/16

	1. ww (Range 0-99 odd numbers only) indicates the communication software protocol *2. S**G** (Glass element) S**F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product),* *indicates a customer account code. Only specific account codes are LPCB approved and indicated by the* *presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* 5. IS indicates the intrinsically safe version.	
MCP1A-Rxxxxx-yyyy-zz	IIndoor surface/flush mounting conventional call point	567av/01
MCP1B-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point	567av/02
MCP2A-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point	567av/03
MCP2B-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point *Notes:* *1. **XXX**xx indicates the series resistor value* **039**xx (lowest 39 ??), **4K7**xx (highest 4.7 k??) 2. xxx**X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted, **P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals) 3. xxxx**G** (Glass element) xxxx**F** (Flexible element) 4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639 6. IS indicates the intrinsically safe version.	567av/04
MCP3A-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point *Notes:* 1. **XXX**xx indicates the electrical configuration (**000**xx = no resistor, **C01**xx = single pole changeover connections) 2. xxx**X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted, **P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals) 3. xxxx**G** (Glass element) xxxx**F** (Flexible element) 4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639 6. IS indicates the intrinsically safe version.	567av/05
MCP4A-R000xx-yyyy-zzIS	Indoor surface/flush mounting conventional call point *Notes:* *1. **X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted, **P**=Pattress mounted,* ***1-4**= Surface mounted with 1-4 terminals)* *2. x**G** (Glass element) x**F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the*	567av/06

	presence of the LPCB logo placed on the product label *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *5. IS indicates the intrinsically safe version.*	
MCP5A-RP07xx-zz	Indoor surface/flush mounting addressable call point (Labor Strauss protocol) Advanced Protocol (and Labor Strauss protocol) *Notes:* 1. **X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted, **P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals) 2. x**G** (Glass element) x**F** (Flexible element) 3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	567av/17
WCP5A-RP07Sx-zz	Outdoor surface mounting addressable call point Advanced Protocol (and Labor Strauss protocol) *Notes:* 1. S**G** (Glass element) S**F** (Flexible element) *2. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567av/18
WCP1A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	567av/09
WCP1B-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	567av/10
WCP2A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call poin	567av/11
WCP2B-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point *Notes:* *1. **XXX**xx indicates the series resistor value **039**xx (lowest 39 ??), **4K7**xx (highest 4.7 k??)* *2. xxxS**G** (Glass element) xxxS**F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code.* *Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *5. IS indicates the intrinsically safe version.*	567av/12
WCP3A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point *Notes:* *1.**XXX**Sx indicates the electrical configuration (**000**Sx = no resistor, **C01**Sx = single pole changeover connections)* *2. xxxS**G** (Glass element) xxxS**F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code.* *Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* 5. IS indicates the intrinsically safe version.	567av/13
WCP4A-R000Sx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point *Notes:* *1. S**G** (Glass element) S**F** (Flexible element)* *2. yyyy (Range A000 to Z999 or STCK for standard*	567av/14

	stocked product),indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label *3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *4. IS indicates the intrinsically safe version.*	
MCP6H-RC01xx-yyyy-zz	Indoor surface/flush mounting conventional call point **Notes:** 1. RC01 **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals) 2. RC01x**G** (Glass element) RC01x**F** (Flexible element) 3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	567av/19
MCP6V-RC01xx-yyyy-zz	Indoor surface/flush mounting conventional call point **Notes:** 1. RC01 **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals) 2. RC01x**G** (Glass element) RC01x**F** (Flexible element) 3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	567av/20

Accessories:

SR Surface mounting plastic box(1)

SR1T Surface mounting plastic box c/w 1 terminal(1)

SR2T Surface mounting plastic box c/w 2 terminals(1)

SR3T Surface mounting plastic box c/w 3 terminals(1)

SR4T Surface mounting plastic box c/w 4 terminals(1)

ETT European Terminal Tray ETT1, 2 & 3(1)

L Earth Continuity Link(1)

M141W Spacer Piece(1)

PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)

C Hinged Cover(2)

Notes:

1. The above accessories are only supplied with MCP 1-7 Series

manual call points

2. The hinged cover is only supplied with the MCP & WCP Series

manual call points optionally indicated by the presence of C at the

end of the model number.

Certificate No: 567x-(cl-1) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
MCP5A-RPwwxx-yyyy-zz	Indoor/Outdoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol)	567x/06
MCP5A-RPwwxx-yyyy-zz	Indoor/Outdoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol) *Notes:* *1. ww (Range 0-99 even numbers only) indicates the communication software protocol* *2. ww**X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted,* ***P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals)* *3. x**G** (Glass element) x**F** (Flexible element)* *4. yyyy (Range A000 to Z999 or STCK for standard stocked product),* *indicates a customer account code. Only specific* *account codes are LPCB approved and indicated by the* *presence of the LPCB logo placed on the product label* *5. zz (Range 0-99) indicates customer marking options detailed* *on KAC controlled drawing 08/2639.*	567x/07
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol)	567x/08
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol) *Notes:* *1. ww (Range 0-99 even numbers only) indicates the communication software protocol* *2. S**G** (Glass element) S**F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product),* *indicates a customer account code. Only specific* *account codes are LPCB approved and indicated by the* *presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed* *on KAC controlled drawing 08/2639.*	567x/09
MCP5A-RP08xx-zz	Indoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and Labor Strauss protocol) *Notes:* *1. **X**x indicates mounting (**S**=Surface mounted, **F**=Flush mounted,* ***P**=Pattress mounted, **1-4**= Surface mounted with 1-4 terminals)* *2. x**G** (Glass element) x**F** (Flexible element)* *3. zz (Range 0-99) indicates customer marking options detailed* on KAC controlled drawing 08/2639.	567x/10
WCP5A-RP08Sx-zz	Outdoor surface mounting addressable call point with short circuit isolator	567x/11

Advanced Protocol (and Labor Strauss protocol)

Notes:

1. S**G** (Glass element) S**F** (Flexible element)

2. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.

Accessories:

SR Surface mounting plastic box(1)

SR1T Surface mounting plastic box c/w 1 terminal(1)

SR2T Surface mounting plastic box c/w 2 terminal(1)

SR3T Surface mounting plastic box c/w 3 terminal(1)

SR4T Surface mounting plastic box c/w 4 terminal(1)

ETT European Terminal Tray ETT 1, 2 & 3(1)

L Earth Continuity Link(1)

M141W Spacer Piece(1)

PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)

C Hinged Cover(2)

Notes:

1. The above accessories are only supplied with MCP Series manual call points

2. The hinged cover is supplied with the MCP & WCP Series manual call points optionally indicated by the present of C at the end of the model number.

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien, 264, Taiwan ROC
Tel: +886 2 22487599

Certificate No: 506d to EN 54-11: 2001 + A1: 2005

Manual Call Point

Product Name	Description	LPCB Ref. No
AH-0217	Conventional Type A Indoor Surface/Flush Mounting Manual Call Point Note: Approved for surface mount use when used with the AHMB-0217 back box	506d/01
AH-0817	Conventional Type A outdoor Manual Call Point *Note: Approved for surface mount use when used with the AHMB-0817 back box*	506d/02

Accessories:
AHMB-0217 back box for surface mounting
AHMB-0817 back box for surface mounting

Hyfire Wireless Fire Solutions Limited

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire, CV8 1NP, United Kingdom
Tel: +44(0)1926485282
E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928h-(cl-14) to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
HFI-CP-03	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
HFI-CP-WP-03	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Certificate No: 928p-(cl-5) to EN 54-11:2001+A1:2005, EN 54-25:2008

Manual Call points

Product Name	Description	LPCB Ref. No
HFW-CP-03	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries

ALCI- Transparent hinged cover

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP), 63076, Italy
Tel: +39 0735 705007
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991h to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
EC0020	Addressable Type A Indoor Re-settable Manual Call Point with Short Circuit Isolator	991h/01

Certificate No: 991j to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
IC0020	Conventional Type A Indoor Re-settable Manual Call Point	991j/01

IOT_FIRE

33 jurong west street 41, #11-41 Singapore, 649413, Singapore
Tel: +65 65270318
E-mail: Sales@iot-fire.com • Website: www.iot-fire.com

Certificate No: 1330g-(cl-6) to EN 54-11:2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No

SS-3688	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Kentec Electronics Limited

Units 25-26, Fawkes Avenue, Questor, Dartford, Kent, DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 567x-(cl-5) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
KS-CALL-POINT-SCI	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SR Mounting Box)	567x/14
KS-CALL-POINT-W-SCI	Weatherproof Intelligent Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator	567x/16

Ancillaries

SR Surface mounting plastic box(1)

Notes:

1. The above accessories are only supplied with MCP Series manual call points

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk, IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450e-(cl-4) to EN 54-11:2001+A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
KET-MCP-180	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174d-(cl-7) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
KM-FC5300	Conventional Resettable Type A Indoor Manual Call Point	1174d/01
KM-FA6300	Addressable Resettable Type A Indoor Manual Call Point	1174d/02

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria
Tel: +43 1 52114-44
E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928h-(cl-6) to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
FI750/MCP	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
FI750/MCPIP67	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Certificate No: 928p-(cl-10) to EN 54-11:2001+A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
FI720/RF/MCP	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries

ALCI -Transparent hinged cover

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton, WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330g-(cl-7) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
LF-X5140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul, TR 34775, Turkey
Tel: +90 216 4664 505
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926h to EN 54-11:2001 +A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
ML-2710	Conventional Type A Indoor Manual Call Point, Resettable	926h/01
ML-1710	Maxlogic Intelligent Analogue Addressable Type A Indoor Resettable Manual Call Point	926h/02
ML-1731	Maxlogic Intelligent Addressable Type A Outdoor Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65)	926h/04

	Notes: Approved with ML-0710 Button Protective Cover	
ML-2730	Maxlogic Conventional Type A Outdoor Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65) Notes: Approved with ML-0710 Button Protective Cover	926h/05

Ancillary
ML-0710 Button Protective Cover

Certificate No: 926k to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
ML-1710.SCI	Maxlogic Intelligent Analogue Addressable Type A Indoor Resettable Manual Call Point with Short Circuit Isolator	926k/01
ML-1731.SCI	Maxlogic Intelligent Addressable Type A Outdoor Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), with Short Circuit Isolator Notes: Approved with ML-0710 Button Protective Cover	926k/03

Ancillary
ML-0710 Button Protective Cover

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, 34147, Italy
Tel: +44 (0)1444 230300
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 567av-(cl-8) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
MI-MCP-xxxxx	Indoor surface/flush mounting addressable call point Advanced Protocol (and Honeywell 500 series protocol) Notes: 1. xxxxx = **GLASS** (Glass element) **FLEX_** (Flexible element)	567av/08
MI-WCP-R/Sx	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and Honeywell 500 series protocol) Notes: 1. Sx = S**G** (Glass element) S**F** (Flexible element)	567av/16

Accessories
Surface mounting plastic box
Surface mounting plastic box c/w 1 terminal
Surface mounting plastic box c/w 2 terminals
Surface mounting plastic box c/w 3 terminals
Surface mounting plastic box c/w 4 terminals
Surface mounting metal box
European Terminal Tray ETT1, 2 & 3
Earth Continuity Link
Bezel Type 1
Bezel Type 2
Bezel Type 3
Spacer Piece

Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE
Hinged Cover

Certificate No: 567x-(cl-2) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
MI-MCP-xxxx-I	Indoor surface/flush mounting addressable call point with short circuit isolator. Advanced Protocol (and Honeywell 500 series protocol) *Note:* *1. xxxxx = **GLASS** (Glass element) or **FLEX_** (Flexible element)*	567x/07
MI-WCP-R/I/Sx	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol) *Note:* 1. Sx = S**G** (Glass element) S**F** (Flexible element)	567x/09

Ancillaries
S4-34895 Surface Mount Back Box
MIM1Z003.0 Surface Mounting Base
Surface mounting plastic box(1)
Surface mounting plastic box c/w 1 terminal(1)
Surface mounting plastic box c/w 2 terminals(1)
Surface mounting plastic box c/w 3 terminals(1)
Surface mounting plastic box c/w 4 terminals(1)
European Terminal Tray ETT1, 2 & 3(1)
Earth Continuity Link(1)
Spacer Piece(1)
Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)
Hinged Cover(2)

ve accessories are only supplied with MCP Series manual call points
The hinged cover is supplied with the MCP & WCP Series manual call points optionally indicated by the presence of 'C' at the end of the model number.

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore, 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330g-(cl-3) to EN 54-11:2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
MX140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Norden Communication UK Ltd

10 Baker Close, Oakwood Business Park, Clacton-On-Sea, Essex, CO15 4BD, United Kingdom
Tel: +44 (0) 207 788 7663
E-mail: sales@nordencommunication.com • Website: www.nordencommunication.com

Certificate No: 1330g-(cl-11) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
NFA-T01CP	Intelligent Addressable Manual Call Point	1330g/01

Notifier by Honeywell

Sector 36, Pace City II, Gurgaon-122004, Haryana, India
Tel: +91-124 4752700 ext 2712
E-mail: amit.puri@honeywell.com

Certificate No: 550h-(cl-1) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
NFX-MCP-GLASS	Addressable Type A Manual Call Point	550h/01

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, 34147, Italy
Tel: +44 (0)1444 230300
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 567av-(cl-7) to EN 54-11: 2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
M700KAC-xx	Indoor surface/flush mounting addressable call point Advanced Protocol (and System Sensor 500 series protocol) Notes: 1. xx = **S** x (Surface mounted) **F** x (Flush mounted) 2. xx = x **G** (Glass element) x **F** (Flexible element)	567av/07
M700WCP-R/Sx	Outdoor Surface Mounting Conventional Call Point Notes: 1. SG = Glass element, SF = Flexible element	567av/15

Accessories
Surface mounting plastic box
Surface mounting plastic box c/w 1 terminal
Surface mounting plastic box c/w 2 terminals
Surface mounting plastic box c/w 3 terminals
Surface mounting plastic box c/w 4 terminals
Surface mounting metal box
European Terminal Tray ETT1, 2 & 3
Earth Continuity Link
Bezel Type 1
Bezel Type 2
Bezel Type 3
Spacer Piece
Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE)
Hinged Cover

Certificate No: 567x-(cl-3) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
M700KACI-xx	Indoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol) **Notes:** 1. xx = **S** x (Surface mounted) **F** x (Flush mounted) 2. xx = x **G** (Glass element) x **F** (Flexible element) 3. The above manual call point is approved with three micro-switches	567x/06

	(Honeywell ZM10E50A01, Otehall 294/20/150/G and Burgess X4G31051BBAQ)	
M700WCP-R/I/Sx	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol) *Note:* *1. **S** x = S **G** (Glass Element) S **F** (Flexible Element)*	567x/08

Accessories:

SR Surface mounting plastic box(1)

SR1T Surface mounting plastic box c/w 1 terminal(1)

SR2T Surface mounting plastic box c/w 2 terminal(1)

SR3T Surface mounting plastic box c/w 3 terminal(1)

SR4T Surface mounting plastic box c/w 4 terminal(1)

ETT European Terminal Tray ETT 1, 2 & 3(1)

L Earth Continuity Link(1)

BZR/1 Bazel Type 1(1)

BZR/2 Bazel Type 2(1)

BZR/3 Bazel Type 3(1)

M141W Spacer Piece(1)

PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)

C Hinged Cover(2)

Notes:

1. The above accessories are only supplied with M700KAC-xx & M700KACI-xx manual call points

2. The hinged cover may be supplied with all models and is optionally indicated by the precence of 'C'

at the end of the model number.

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar, Uttar Pradesh, 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450e-(cl-2) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
NF5264	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

Oscar Fire, Safety & Security Ltd

22 Sacriston Close, Billingham, Cleveland, Durham, TS23 2TE, United Kingdom
Tel: +44 1642 560218
E-mail: kevin@oscarfire.uk

Certificate No: 1426d-(cl-8) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
SDS-9060A	Addressable Manual Call Point	1426d/01

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya, 10150, Indonesia

Tel: +62216330330

E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426d-(cl-4) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
SMC 237	Addressable Manual Call Point	1426d/01

Safetek Fire Fighting & Safety Equipment Trading L.L.C.

Dubai Investment Park 1, Dubai, 133358, United Arab Emirates

Tel: +971 0554149550

E-mail: firesafetek@gmail.com

Certificate No: 1330g-(cl-9) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
SK7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Safety Technology International Limited

Taylor House, 34 Sherwood Road, Aston Fields Industrial estate, Bromsgrove, Worcestershire, B60 3DR, United Kingdom

Tel: +44 (0)1527 520999

E-mail: sales@sti-emea.com • Website: www.sti-global.com

Certificate No: 653a to EN 54-11: 2001 + A1: 2005

Manual Call Point

Product Name	Description	LPCB Ref. No
Series 01	Conventional Type A re-settable indoor flush/surface mounted manual call point	653a/01
	Notes:	
	1. Flush mount approved model RP-RF-01 (M200)	
	2. Surface mount approved model RP-RS-01 (M200 + M125)	
	3. Surface mount approved model RP-RS1-01 (M223)	
	4. Flush mount approved model RP-RF2-01 (M200/V2)	
	5. Dual mount approved model RP-RD2-01 (M200/V2 + M223/V2)	
	6. Surface mount approved model RP-RS2-01 (M223/V2)	
	7. Approved colour, red only	

Accessories

M200 Wall Plate

M125 Back Box

M223 Back Box

M200/V2 Wall Plate

M223/V2 Back Box

Schneider Electric Buildings AB

Mobilvägen 8, Lund, 223 62, Sweden
Tel: +46104782000
E-mail: info.se@se.com • Website: www.se.com/buildings

Certificate No: 010bh-(cl-3) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
FFS06723706	Intelligent Addressable Manual Call Point with Short Circuit Isolator (43785-278 Mounting Bracket and 43785-279 Back Box) 43785-278 Mounting Bracket 43785-279 Back Box	010bh/01
ECE221-I	ESMI Essentia Manual Call Point ECE221-I (43785-278 Mounting Bracket and 43785-279 Back Box)	010bh/01

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong, 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426d-(cl-2) to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
A9060T	Addressable Manual Call Point	1426d/01

SHIELD FIRE, SAFETY & SECURITY LTD

Unit 3, Endeavour Drive, Basildon, SS14 3WF, United Kingdom
Tel: +44 1708 377 731
E-mail: info@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010bh-(cl-2) to EN 54-11:2001 + A1: 2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SEN-A4061	Intelligent Addressable Manual Call Point with Short Circuit Isolator	010bh/01

Certificate No: 010n-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SIL-A7033	SIL I.S. Manual Call Point	010n/09

Certificate No: 010w-(cl-3) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SIL-A7011	SIL Indoor Manual Call Point with Isolator	010w/01
SIL-A7023	SIL Waterproof Manual Call Point with Isolator	010w/06

Certificate No: 928p-(cl-11) to EN 54-11:2001 + A1: 2005, EN 54-25: 2008

Product Name	Description	LPCB Ref. No
SW-5500	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries

SR01 Surface Mount Back Box

ALCI- Transparent hinged cover

Siemens Switzerland Ltd

Theilerstrasse 1a, Zug, CH-6300 , Switzerland
Website: www.siemens.com

Certificate No: 126ap to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
FDM225-RP	Digital addressable Type A Indoor Manual Call Point with Resettable Plastic Element and incorporating a Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/01
FDM225-RG	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/02
FDM226-RP	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator (Including Housing Base with fixing attachments and FDMC295)	126ap/03
FDM226-RG	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator (Including Housing Base with fixing attachments and FDMC295)	126ap/04
FDM225-RP (F)	Digital Addressable Type A Indoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator; French Labelling on Re-Settable Plastic Element (FDMH295-R, FDMH295-S and FDMC295)	126ap/10
FDM225-RG (F)	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator; French Labelling on Non-Re-Settable Glass Element (FDMH295-R, FDMH295-S and FDMC295)	126ap/11
FDM365-RP	Addressable Manual Call Point, Type A, with a Re-Settable Plastic Element, and Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/12

Bases:

FDMH295-R Housing Base

FDMH295-S Housing Base with Holes and Sockets

Accessories:

FDMC295 Transparent Polycarbonate Protective Cover

DMZ1197-AC Protective Cover

FDMC291 Protective cover

FDMK231 Key

FDMK291 Key with cover

DMZ1197-AD Seal for wet areas

DMZ1195 Key

DMZ1197-AC Protective Cover

FDME231 Switching unit

FDME231-FR Switching unit (French Variant)

FDMH231-S-R Housing base

Certificate No: 126as to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
FDM1101-RG	Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element (**FDMC295)**	126as/01
FDM1101-RP	Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element (**FDMC295)**	126as/02
FDM1101A-RG	Conventional Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element (**FDMC295)**	126as/03
FDM1101A-RP	Conventional Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element (**FDMC295)**	126as/04
FDM1101-RG(F)	Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element; French Labelling on Non-Resettable Glass Element (**FDMC295)**	126as/05
FDM1101-RP(F)	Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element; French Labelling on Resettable Plastic Element (**FDMC295)**	126as/06

Accessories:

FDMC295 Transparent Polycarbonate Protective Cover

Certificate No: 531j-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
DM1104	Conventional Type A Indoor and Outdoor Manual Call Point	531j/02
DM1104H	Conventional Type A Indoor and Outdoor Manual Call Point (DMZ1197-AC)	531j/03

Accessories

DMZ1197-AC Protective Cover

Certificate No: 531k-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
FDM221	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (FDMC291 and FDMK291)	531k/07
FDM223	Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporation Short Circuit Isolator (DMZ1197-AC and DMZ1195)	531k/08
FDM223H	Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1197-AD)	531k/09
FDM224	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Glass Element	531k/10

	and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1195)	
FDM224H	Digital Addressable Type A indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1197-AD)	531k/11
FDM231-RP	Addressable Indoor Manual Call Point with Short Circuit Isolator (FDMK231, FDME231 and FDMH231-S-R)	531k/12
FDM231-RP(F)	Addressable Indoor Manual Call Point with Short Circuit Isolator (FDMK231, FDME231-FR and FDMH231-S-R)	531k/13

Accessories

FDMC291 Protective cover

FDMK231 Key

FDMK291 Key with cover

DMZ1197-AD Seal for wet areas

DMZ1195 Key

DMZ1197-AC Protective Cover

FDME231 Switching unit

FDME231-FR Switching unit (French Variant)

FDMH231-S-R Housing base

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester, LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100
Website: www.smsfire.co.uk

Certificate No: 042bq to EN 54-11: 2001 + A1: 2005, EN 54-17: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
SEN-800	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SEN-895 surface mount back box) Note: 1. Approved for use with glass non re-settable element	042bq/01
SEN-805	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SEN-895 surface mount back box) Note: 1. Approved for use with plastic re-settable element	042bq/03
SEN-805-EP	Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (MIM1Z003.0 Surface Mounting Base) Note: 1. Approved for use with plastic re-settable element	042bq/05

Ancillaries

SEN-895 Surface Mount Back Box
MIM1Z003.0 Surface Mounting Base

Sodcks

8 Mogamaa Al-Fardous, Nasar City, Cairo, 11511, Egypt

Certificate No: 1426d-(cl-7) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
C400	Addressable Manual Call Point	1426d/01

SVS Buildwel Private Limited

9/C-8, Sector-7, Rohini, New Dehli, 11085, India
Tel: 011-27053918 • Alt Tel: 011-27053818
E-mail: Info@svslifesafety.com

Certificate No: 1330g-(cl-10) to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
SHFT81MCP	Indoor Type A Flush Mount Resettable Manual Call Point, Supplied with Resettable Key	1330g/01

Synaps Technology Srl

Via Pietraferrata 9/1, Trieste, 34147, Italy
Tel: 0039 0409896002
E-mail: info@synaps-technology.com • Website: www.synaps-technology.com

Certificate No: 959a to EN 54-11: 2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
SyCALL R6847L	Conventional Type A Indoor Manual Call Point	959a/01
CWC99	Conventional Type A Outdoor Manual Call Point	959a/02

Ancillaries

Ancillaries:

Deep Back Box

Safety Cover

Wall Flush Mount Plate (white only) and External Trim Frame (white only)

CALL-105_A Back Box for Wall Mounting

CALL-190_A Wall Mount Plate (60mm) for Semi-Flush Mounting

CALL-125_A Safety Cover

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London, W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010bh-(cl-5) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
5000-700	Syncoln Addressable Manual Call Point with Isolator (5000-702 Bracket and 5000-710 Back Box)	010bh/01

Ancillaries

5000-702 Mounting Bracket

5000-710 Back Box

Certificate No: 512f-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SYN 4000-200	Conventional Manual Call Point with Flashy LED and Transparent Cover	512f/04

Tanda (UK) Limited

80 Coleman Street, London, EC2R 5BJ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330g-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
TX7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore, 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330g-(cl-4) to EN 54-11: 2001 + A1: 2005

Product Name	Description	LPCB Ref. No
TX7140	Intelligent Analogue Addressabke Type A Indoor Surface Mounted Manual Call Point	1330g/01

Teletek Electronics JSC

14A Srebarna Street, Sofia, 1407, Bulgaria
Tel: +359 2 9694 700
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139f to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SensoIRIS MCP150	Intelligent Analogue Addressable Fire Alarm Type A Indoor Manual Call Point with built-in Short Circuit Isolator Module Note: 1. Approved to Type A Indoor only	1139f/01

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC, 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174d to EN 54-11:2001 + A1:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
VC-6653	Conventional Resettable Type A Indoor Manual Call Point	1174d/01
VI-6657	Digital Resettable Type A Indoor Manual Call Point	1174d/02

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, 8212, Switzerland
Tel: +44 (0)1462 667700
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 567av-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Product Name	Description	LPCB Ref. No
MCP200	Indoor surface/flush mounting conventional call point	567av/03
MCP210	Indoor surface/flush mounting conventional call point	567av/03
MCP250M	Indoor/outdoor surface/flush mounting conventional call point Marine model	567av/03
MCP230	Outdoor surface mounting conventional waterproof call point	567av/11
MCP260M	Outdoor surface mounting conventional waterproof call point Marine model	567av/11

Accessories
Surface mounting plastic box
Surface mounting plastic box c/w 1 terminal
Surface mounting plastic box c/w 2 terminals
Surface mounting plastic box c/w 3 terminals
Surface mounting plastic box c/w 4 terminals
Surface mounting metal box
European Terminal Tray ETT1, 2 & 3
Earth Continuity Link
Bezel Type 1
Bezel Type 2
Bezel Type 3
Spacer Piece
Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE
Hinged Cover

Certificate No: 567x-(cl-4) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
MCP820	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	567x/12
FC420CP-I	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	567x/12
MCP820M	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit	567x/13

	Isolator (Marine Version) Note: Approved with glass element only option	
4099-5210	Simplex Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	567x/12
MCP820 (514.800.611.CN)	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Chinese version) Note: Approved with glass and flexible element options	567x/12

Certificate No: 681ab-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
MCP830	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	681ab/01
MCP830 (514.800.612.CN)	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Chinese version) Note: Approved with glass and flexible element options	681ab/01
FC421CP-I	FireClass Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	681ab/01
4099-5211	Simplex Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	681ab/01
MCP830M	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Marine Version) Note: Approved with glass element only option	681ab/02

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174d-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call Point

Product Name	Description	LPCB Ref. No
VG-6653	Conventional Resettable Type A Indoor Manual Call Point	1174d/01
VG-6657	Addressable Resettable Type A Indoor Manual Call Point	1174d/02

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL, 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426d-(cl-1) to EN 54-11:2001 + A1: 2005

Manual Call points

Product Name	Description	LPCB Ref. No
VI 200-CP	Intelligent Addressable Manual Call Point	1426d/01

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 1255c-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
SIGI-271	Digital Addressable Indoor Manual Call Point, Surface or Flush Mounted	1255c/01

Accessories: KAC SR3T-P Surface mounted box KAC ETTI-P Flush mounted box

Certificate No: 1255g-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call Points

Product Name	Description	LPCB Ref. No
SIGI-MCP	Manual Call Point with Isolation	1255g/01

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning, 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450e to EN 54-11:2001 + A1: 2005

Product Name	Description	LPCB Ref. No
J-SAP-TCSB5264	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea, SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330m to EN 54-11:2001, EN 54-17:2005

Manual Call points

Product Name	Description	LPCB Ref. No
ZT-CP4/AD	Addressable Fyreye II Resettable Call Point, Type A Indoor with Short Circuit Isolator	330m/02
ZT-CP4/AD/WP	Addressable Fyreye II Resettable Call Point, Type A Weatherproof with Short Circuit Isolator	330m/03

Accessories

M200 Wall Plate

M223 Back Box

M200/V2 Wall Plate

M223/V2 Back Box

Certificate No: 959a-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call points

Product Name	Description	LPCB Ref. No
ZT-CP4	Conventional Type A Indoor Manual Call Point	959a/01
ZT-CP4/WP	Conventional Type A Outdoor Manual Call Point	959a/02

Accessories

CALL-105_A Back box for wall mounting

CALL-190_A Wall Mount Plate (60mm) for semi-flush mounting

CALL-125_A Safety cover

Zhongshan Guta Fire Equipment Technology Co., Ltd

4/F 10# Xingye Road, Huojo District, Zhongshan City, Guangdong, 528400, China
Tel: 8613828765759
E-mail: strongwang@asenware.com • Website: www.guta-fire.com

Certificate No: 1395d to EN 54-11: 2001 + A1: 2005

Product Name	Description	LPCB Ref. No
AW-D135C	Conventional Type A Indoor Manual Call Point	1395d/01
AW-D135A	Addressable Type A Indoor Manual Call Point	1395d/02

POWER SUPPLY EQUIPMENT - STANDALONE

This Section lists Power supply equipment which is either not intended to supply power to Fire Alarm Control Panels or which is standalone and has not been tested and approved as part of a Fire Alarm System.

Products listed in this section have been approved to:

- EN 54-4 *Power supply equipment;*
- ISO 7240-4 *Power supply equipment;*

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Kentec Electronics Limited

Units 25-26, Fawkes Avenue, Questor, Dartford, Kent, DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 360a to EN 54-4:1997+A1:2002+A2:2006

Power Supply Equipment

Product Name	Description	LPCB Ref. No
K25800 03	10.25 A Power supply with maximum 8Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/01
KD25800 03	Dual O/P 10.25 A Power supply with maximum 8Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	360a/02
K25800 15	10.25 A Power supply with maximum 45Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/03
KD25800 15	Dual O/P 10.25 A Power supply with maximum 45Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	360a/04
K25800 M3	10.25 A Power supply with maximum 18Ah Batteries in M3 housing Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/05
KD25800 M3	Dual O/P 10.25 A Power supply with maximum 18Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/06

	S789 Dual output PCB	
K25800 D3	10.25 A Power supply with maximum 45Ah Batteries in D3 housing Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/07
KD25800 D3	Dual O/P 10.25 A Power supply with maximum 18Ah Batteries in D3 housing Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	360a/08