Product Catalogue 2016/2017

apollo

Apollo Accreditation

Apollo products are certified in a global arena to meet the most exacting standards set by both our customers, and the dynamic and challenging environments in which they are designed to operate. We hold in excess of 3,000 product approvals worldwide and our products are stringently tested to international land and marine-based standards.

Apollo is quality certified by LPCB to ISO9001:2008 and ISO14001:2004 for our Environment Management System. The continuous improvement of the Apollo programme ensures that our products will always be designed to meet the ever-evolving criteria set by our worldwide approval bodies.

CE 0832 1180 · CE 0832 · CE 0843 · CE 0333 · CE 0359 · CE 0786

Need further information? Visit **www.apollo-fire.co.uk/certificates**

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An introduction to Apollo

PARTNER OF CHOICE

Apollo Fire Detectors has specialised in the design and manufacturing of high quality fire detection products since 1980. In that time, we have broadened our capability from a straightforward focus on conventional fire detectors, to the manufacture of sophisticated analogue addressable detectors and interfaces.

We apply the most modern production techniques and have invested in sophisticated manufacturing equipment to ensure consistent high quality products and fast response to customer requirements. Through planned expansion, Apollo has reached a leading global position in the market for professional fire detection. With over 3,000 international approvals, regional offices in the UK, America, China, Dubai, Germany & India along with direct trade into more than 100 countries, we have cemented our position as a world-class fire solutions provider.

Apollo is part of the Halma group of companies. Halma is a FTSE top 250 listed PLC with over 40 subsidiaries worldwide, all engaged in specialist engineering activities.

WHY CHOOSE APOLLO?

- Largest independent smoke detector manufacturer
- Certified to all key international approvals
- Product Lifetime Guarantee
- Trust, integrity & support
- Localised customer service worldwide
- Ex-stock delivery
- 100% tested
- Open, digital communication protocol
- Forwards and backwards product compatibility

WORLD-CLASS FACILITIES

Our on-site manufacturing facility is capable of producing over 50,000 detectors a day and a great deal of care is taken to ensure that each and every detector meets the very highest of standards.

As part of our commitment to continue to meet the required high standards and remain a world leader, we have invested heavily in extensive product testing facilities, where a suite of tests are carried out to ensure our products will withstand even the most rigorous of real-life situations.

We have recently added an anechoic chamber and validation laboratory to our testing facilities. An anechoic chamber is a room designed to absorb ambient noise and stop reflections of sound, so that accurate sound testing can take place inside it. A validation laboratory is the final step in the development of fire detection technology, to ensure that devices will work in every environment and scenario that they might face.

PRODUCT LIFETIME GUARANTEE

Our products save lives and protect property around the world from the risk of fire, a huge responsibility and one we take very seriously. Our Product Lifetime Guarantee provides a warranty on our products, which for detectors is 10 years (CO detectors is five years). The guarantee supports our recommended working life of the product and further endorses our commitment to our customers in providing them with reliable, quality fire detection products.

Apollo acknowledges the importance of life safety and system integrity and recommends the routine replacement of detectors after 10 years (CO detectors, 5 years).

The Product Lifetime Guarantee is subject to terms and conditions. For further information, please refer to the Apollo General Conditions of Sale which can be found on pages 178-179 or on the Apollo website. Outside the United Kingdom, this is known as a 10 Year Product Guarantee.

Additional services

SERVICING & DISPOSAL

We offer a service facility for Apollo detectors and ancillary products, such as Interfaces and Manual Call Points. This means that older models of our detectors can be serviced (subject to being within their recommended working life).

THE FOLLOWING SERVICES ARE OFFERED:

Detectors can be returned for a full clean and recalibration so they work within the same limits as newly-manufactured detectors

Manual Call Points, Interfaces and Audio Visual products can be returned for cleaning and testing to ensure they are still functioning within manufacturing limits

Equipment which is found to be beyond economical repair (BER) or is older than the recommended working life can be disposed of

For more information on the services and disposal of products and their associated charges, contact **returns@apollo-fire.com**

LOOP CALCULATOR

The Apollo Loop Calculator is a free computer programme used to establish the viability of a design. It enables Engineers to calculate the total loop loading in a proposed SOTERIA®, Discovery or XP95 fire detection system by inputting relevant variables. This may include control equipment, loop devices and cable length and type. Parameters are included for Apollo protocol compatible panels.

Please see the Apollo website for more details:
www.apollo-fire.co.uk/loop-calc

SIMSYSTEM

SimSystem (29600-164) is a tool for simulating loops of detectors and interfaces in order to demonstrate a system and approve the design without having to connect actual products to a fire control panel. SimSystem consists of a software programme which features an intuitive graphical display and an interface which runs up to four loops. A maximum of two interfaces can be connected, allowing a system of up to eight loops to be simulated.

TECHNOLOGY SOLUTIONS

OPENCONNECT

The OpenConnect product is designed to directly connect Building Management Systems (BMS) to a fire control panel supporting Apollo devices. It provides an off-the-shelf solution for a fast, documented implementation.

For more information see the OpenConnect site:
www.open-connect.co.uk

Part numbers are available on request.

APOLLO LOOP MODULES

The Apollo Loop Module (ALM2) provides various combinations of Apollo device loop managers and output circuits for use with Apollo XP95 and Discovery devices. Supporting up to two power limited initiation circuits of 126 devices per loop, the ALM2 is designed to access, configure, control and monitor each device and report event statuses as they change in a real-time environment. Additionally, the ALM2 can provide two output circuits, each designed to work as a general purpose output, releasing output or a Notification Appliance Circuit.

Part numbers are available on request.

APOLLO APP

This app provides you with a version of the BS 5839-1 Guide to help you stay within the rules and regulations when installing fire detectors and devices.

Find out more information at:
apollo-fire.co.uk/app

APOLLO TRAINING COURSES

Apollo offers a series of one-day training courses for our customers.

In addition to the standard training courses, we can offer tailor-made courses if required. The majority of courses are held at the Apollo International office in Havant, UK, but on-site training is also available.

You can find out more about Apollo's training days and book your place by visiting **www.apollo-fire.co.uk/training**

COURSE A – CPD APPROVED

- Detection Principles and Device Selection
- Conventional Detector Operation
- Analogue Addressable Principles
- XP95
- Alarm Devices

COURSE B

- Carbon Monoxide (CO) Fire Detection
- AlarmSense
- Orbis
- OpenConnect
- Discovery

COURSE C – CPD APPROVED

- XPander – for commissioning and installation Engineers

COURSE D – CPD APPROVED

- Service, Test and Maintenance

COURSE E – CPD APPROVED

- What is intrinsic safety?
- BASSEEFA classification ATEX E Ex ia 11c T5
- Orbis I.S. smoke and heat detectors
- Conventional barriers and I.S. circuits
- XP95 I.S. manual call points, smoke and heat detectors
- XP95 protocol translators and barriers
- XP95 I.S. circuit design

COURSE S

- SOTERIA®
- CoreProtocol®
- EN 54-23
- Factory tour

This course explains to attendees the device features and benefits of the new Apollo collection of SOTERIA® addressable detectors. It also details the new Apollo enhanced protocol, CoreProtocol®, and will offer guidance on standard EN 54-23 for Visual Alarm Devices (VADs).

CPD SEMINARS

Apollo offers training seminars that will count towards your Continuing Professional Development (CPD). These free sessions on fire industry-related topics allow you and your company to stay up to date with the latest developments.

For a list of our CPD approved training courses and to find out more email **marketing@apollo-fire.com** or visit **www.apollo-fire.co.uk**

CPD CERTIFIED
Construction CPD Certification Service

Analogue Addressable

Apollo offers three ranges of analogue addressable systems – SOTERIA®, Discovery and XP95.

Apollo has been using an open, digital communication protocol since 1986 and has ensured backward compatibility when developing new products. An open protocol allows freedom of choice for the fire system specifier, installer and end user. A system using a digital communication protocol has a high immunity from corruption and is therefore often preferred in a system which is life-critical.

CHOICE OF DETECTOR TYPE

The choice of detector from the analogue addressable range follows the well-established principles of system design. That is, the optimum detector type will depend on the type of fire risk and fire load, and the type of environment in which the detector is sited.

For general use, smoke detectors are recommended since these give the highest level of protection. Smoke detectors from the analogue addressable range may be ionisation, optical or multisensor types. The most widely used single-sensor detector is the optical smoke detector. For the greatest versatility in designing fire detection systems, the optical/heat multisensor is the detector of choice.

ANALOGUE ADDRESSABLE RANGE

Find out more information at:
apollo-fire.co.uk/analogueaddressable

SOTERIA® DISCOVERY® XP95®

There are two types of analogue addressable systems – those with 'distributed intelligence' and those with 'centralised intelligence'.

In systems with 'distributed intelligence', the detectors incorporate processors which can determine whether alarm levels of smoke or heat exist and can initiate action accordingly.

Detectors in systems with 'centralised intelligence' monitor the air around them for smoke or heat and transmit the data to the fire control panel on interrogation. The processor in the panel compares the values with stored values and determines whether a pre-alarm or alarm should be signalled.

The advantages of 'distributed intelligence' are local adaptation to the environment and reduction of traffic on the supply and data wires.

SOTERIA®

Powered by

coreprotocol

The SOTERIA® detector range offers the next generation in fire detection to meet the demands of ever increasing complex systems. SOTERIA® includes new optical smoke sensing technology, PureLight®, to help reduce unwanted alarms. The SOTERIA® range incorporates fast and clear status reporting and maintains loop integrity via a smart Isolator in the head.

SOTERIA® optical smoke sensing technology, PureLight®, incorporates a host of innovative features including:

SERPENTINE

Smoke entry path which provides a wide degree of separation of smoke and dust, enables smoke to enter the chamber whilst acting as a barrier against dust and insect ingress.

ADVANCED CHIP SENSOR

Applying the latest in electronics, advanced technology significantly improves the detection of smoke.

CONE TECHNOLOGY

Reduces stray reflections of light to produce an ultra-dark chamber which enables sophisticated management of contaminates within the sensing chamber.

SOTERIA® RANGE

Find out more information at:
apollo-fire.co.uk/soteria

SOTERIA® DETECTORS ARE POWERED BY NEXT GENERATION DIGITAL COMMUNICATION, FROM APOLLO, COREPROTOCOL®

Increased addressing capacity up to 254 per loop

Higher loop power for today's demand for evermore sophisticated Audio Visual

Greater system flexibility through devices grouping and modes to cater for every project

Incorporating PureLight® detection technology, Apollo's optical technology which increases the reliability of fire detection and results in fewer false alarms

Five operating modes for optical smoke and multisensor detectors and eight operating modes for heat detectors, each approved to EN 54 standards.

Automatic drift compensation where the detector automatically compensates for the build-up of contamination, maintaining a stable alarm threshold

Integrated smart isolator in the head to maintain loop integrity

Up to 10 times quicker maintenance using FasTest®

SOTERIA® is backwards compatible with XP95 and Discovery systems ensuring PureLight® technology is available to all our customers.

LPCB

CE 0832

SOTERIA® Optical Smoke Detector

The SOTERIA® Optical Smoke Detector uses new optical sensing technology, PureLight®, to detect smoke particles entering the chamber. PureLight® marks a new stage in the development of Apollo optical technology and aims to reduce the possibility of false alarms and increase the reliability of detection of a real fire.

- PureLight® optical technology reduces false alarms and enhances smoke recognition
- Utilises CoreProtocol® digital communication
- Compatible with XP95 and Discovery systems
- Mechanically compatible with existing bases
- Available with or without integrated switchable isolator
- Drift compensation
- Tri-coloured LED status indicator
- 5 sensitivity modes approved to EN 54
- Comprehensively tested to exceed EN 54-7 standard
- FasTest® for quicker testing of detectors
- XPERT 8 Card addressing
- Locking mechanism (grub screw)

SA5000-600
SOTERIA® Optical Smoke Detector (non-isolated)

SA5100-600
SOTERIA® Optical Smoke Detector (isolated)

SOTERIA® Optical/Heat Multisensor Detector

The SOTERIA® Optical/Heat Multisensor Detector uses new optical sensing technology, PureLight®, to detect smoke particles entering the chamber and is fitted with two thermistors for detecting heat. It can be switched to detect smoke, heat or a combination of both, offering greater flexibility.

- Dual heat sensors
- PureLight® optical technology reduces false alarms and enhances smoke recognition
- Utilises CoreProtocol® digital communication
- Compatible with XP95 and Discovery systems
- Mechanically compatible with existing bases
- Available with or without integrated switchable isolator
- Drift compensation
- Tri-coloured LED status indicator
- 5 sensitivity modes approved to EN 54
- Comprehensively tested to exceed EN 54-5 & EN 54-7 standards
- FasTest® for quicker testing of detectors
- XPERT 8 Card addressing
- Locking mechanism (grub screw)

SA5000-700
SOTERIA® Optical/Heat Multisensor Detector (non-isolated)

SA5100-700
SOTERIA® Optical/Heat Multisensor Detector (isolated)

SOTERIA® Heat Detector

The SOTERIA® Heat Detector features two heat sensors located laterally to ensure accurate heat detection in all orientations.

- Dual heat sensors
- Utilises CoreProtocol® digital communication
- Compatible with XP95 and Discovery systems
- Mechanically compatible with existing bases
- Available with or without integrated switchable isolator
- Tri-coloured LED status indicator
- Eight sensitivity modes approved to EN 54
- Comprehensively tested to exceed EN 54-5 standard
- FasTest® for quicker testing of detectors
- XPERT 8 Card addressing
- Locking mechanism (grub screw)

SA5000-400
SOTERIA® Heat Detector (non-isolated)

SA5100-400
SOTERIA® Heat Detector (isolated)

XPERT 8 Intelligent Mounting Base

All detectors in the SOTERIA®, Discovery and XP95 Discovery ranges fit into the XPERT 8 Intelligent Mounting Base. The base has a wide interior diameter for ease of access to cables and terminals. Additionally, the detector can be locked into the base for increased security, with a grub screw using a 1.5mm hexagonal driver. The XPERT 8 card, part number 38532-064, supplied with the base, has pre-punched pips to remove to set the address. Refer to the Coding Guide Part No. 39214-481 for details on how to set the address.

- Compatibility with SOTERIA®, XP95 and Discovery detectors
- Isolated and non-isolated devices supported
- Isolated wiper maintains loop connectivity during temporary removal of devices
- XPERT 8 Card addressing for 254 address capability
- 'E-Z Fit' allows for simple mounting of the detector base after wiring
- Keyed to accept only addressable devices
- Base mark allows for LED detector alignment

SA5000-200
XPERT 8 Intelligent Mounting Base

XPERT 8 Card

XPERT 8 Cards are supplied with all XPERT 8 Mounting Bases. Using a coding guide Part No. 39214-481, pips are removed to set the address of the inserted detector.

- Uses patented, proven technology
- Address remains the same, no matter how often detectors are replaced
- Flexibility to create any address

38532-064
Blank XPERT 8 Card

Intelligent Manual Call Point

The Apollo range of Intelligent Manual Call Points have been designed to comply with European standard EN 54-11. In addition, our call points include a number of features designed to make installation and testing quick, easy and cost-effective. It can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable operating element
- Easy access, front reset mechanism
- E-Z fit connector system for installation
- EN 54-11 & EN 54-17 Certified
- Front-facing LED
- Continuity link for cable insulation testing
- Suitable for semi-flush or surface mounting

SA5900-908
Intelligent Manual Call Point

DISCOVERY®

Discovery is a range of high specification, analogue addressable fire detectors. Discovery detectors offer reliable detection and false alarm management through a combination of EN 54 approved operating modes and sophisticated algorithms. Discovery has a 'distributed intelligence' system, where decisions are made in the detector head as well as the fire control panel. Drift compensation is also incorporated into the detector, allowing it to adapt to dirty or dusty environments which reduces false alarms.

Each detector in the Discovery range can operate in one of five response modes which can be selected from the fire control panel or hand-held programmer. The response characteristics have been carefully set so that the detectors comply with the requirements of the relevant part of EN 54 in all response modes. Mode One will give a higher sensitivity to fire than Mode Five.

Designed for use in medium to large applications with specific system requirements, Discovery gives you total reassurance in installations where adaptability to changing conditions and protection against unwanted alarms is paramount.

DISCOVERY RANGE

Find out more information at:
apollo-fire.co.uk/discovery

KEY FEATURES OF DISCOVERY INCLUDE:

- Five operating modes approved and certified to CPD and EN 54
- Automatic drift compensation to ensure constant sensitivity
- Advanced features for audio visual devices
- Rejection of transient signals
- Flashing LED option
- Four bytes of non-volatile memory for user data
- Alarm flag for fast alarm reporting
- Conventional alarm facility during fire control panel processor fault
- 360° LED visibility in alarm
- Compatible with SOTERIA® and XP95 systems

LPCB VdS CE 0832

Discovery Optical Smoke Detector

The Discovery Optical Smoke Detector operates using the light scatter principle and is ideal for applications where slow-burning or smouldering fires pose a potential risk.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Five response modes
- Remote test feature

58000-600
Discovery Optical Smoke Detector

Discovery Multisensor Detector

The Discovery Multisensor Detector comprises optical smoke and thermistor temperature sensors which give both a combined signal as well as a separate heat signal for improved false alarm management.

- Ideal for a wide range of applications
- Enhanced false alarm management
- Recommended, in specific modes, for hotel bedrooms and hospital wards
- Unaffected by wind or atmospheric pressure
- Well-suited to sensitive environments
- Five response modes
- Heat only and optical only options
- Remote test feature

58000-700
Discovery Multisensor Detector

Discovery Ionisation Smoke Detector

The Discovery Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chambers and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Resilient to dust
- Five response modes
- Remote test feature

58000-500
Discovery Ionisation Smoke Detector

Discovery Heat Detector

The Discovery Heat Detector uses a single thermistor to sense the air temperature around the detector.

- Ideal in environments that are dirty or smoky under normal conditions
- Well-suited to warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure
- Five response modes
- Remote test feature

58000-400
Discovery Heat Detector

Discovery Carbon Monoxide Detector

The Discovery Carbon Monoxide Detector is good at detecting deep-seated fires.

Please note that CO detectors do not detect smoke particles or heat and are not universal replacements for smoke detectors.

- Enhanced detection capability
- Ideal for smouldering fires
- Less susceptible to false alarms caused by steam than smoke detectors
- Five response modes
- Remote test feature

58000-300
Discovery Carbon Monoxide Detector

Discovery CO/Heat Multisensor Detector

The Discovery CO/Heat Multisensor Detector is good at detecting deep-seated smouldering fires which produce a lot of CO as well as flaming fires. They are ideal for use in hotel bedrooms where steam may be present, dusty environments or even locations where simulated smoke may be present.

- Responds to smouldering and flaming fires
- Less susceptible to false alarms caused by steam and dust
- Five response modes
- Remote test feature

58000-305
Discovery CO/Heat Multisensor Detector

Intelligent Mounting Base

All detectors in the Discovery range fit the Intelligent Mounting Base. The mounting base is a low insertion force base with stainless steel contacts for the detector terminals. XPERT 7 Cards are supplied with all XPERT 7 Mounting Bases.

- XPERT 7 Card addressing
- One-way fit of detector
- Locking feature to prevent unauthorised detector removal

45681-210
Intelligent Mounting Base

Intelligent Deep Base

The Intelligent Deep Base is a mounting base for Discovery products which has an increased depth allowing for cables to be inserted from the side.

- Enables surface wiring
- XPERT 7 Card addressing
- Locking feature to prevent unauthorised detector removal

45681-209
Intelligent Deep Base

Intelligent Low Power Relay Base

The Intelligent Low Power Relay Base incorporates a low power relay to control field equipment.

- Provides a set of voltage-free contacts controlled by the remote output of a detector
- Draws negligible current
- Capable of switching up to 30V at 1A

45681-242
Intelligent Low Power Relay Base

Intelligent Heater Base

The Intelligent Heater Base is designed to be used in cold climates where environmental conditions could result in either icing or condensation affecting the operation of detectors. It is recommended that the heater base be used in conjunction with either a Waterproof Base Cover or Deckhead Mounting Box to minimise moisture ingress.

- Raises the ambient temperature of a detector chamber by approximately 10°C
- Limits the risks or potential for losses of functionality of detectors installed in cold conditions

45681-219
Intelligent Heater Base

45681-519
Waterproof Base Cover

45681-217
Deckhead Mounting Box

Isolating Base

The Isolating Base senses and detects short-circuit faults on Discovery loops and spurs.

- Up to 20 detectors or their equivalent load, may be installed between isolating bases
- High-brightness LED
- Detects wiring short-circuits
- Minimises disruption from short-circuits

45681-284
Isolating Base

Isolator Base

The Isolator Base is unique and designed to only accept the Isolator 55000-720.

45681-211
Isolator Base

Isolator

The Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

- Detects wiring short-circuits
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors or their equivalent load, may be installed between isolators

55000-720
Isolator

MiniDisc Remote Indicator

The MiniDisc Remote Indicator is a light weight, compact red LED indicator for use in fire detection systems.

- Can be used across the entire Apollo range
- Small and discreet
- Anti-tamper screw to protect against unauthorised removal

53832-070
MiniDisc Remote Indicator

Discovery Sounder Visual Indicator Base

The Discovery Sounder Visual Indicator Base uses the Discovery Protocol and is appropriate for use with the entire Discovery detector head range. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- Individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the fire control panel
- Tones can be used for other purposes in addition warning of fire, ideal for schools
- Enables soft start option, ideal for hospitals and nursing homes
- Electronic bell tone
- 15 tone pairs

45681-393
Discovery Sounder Visual Indicator Base

29650-001
Magnetic Wand

Discovery Sounder VAD Base with Isolator

The Discovery Sounder VAD Base makes full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder VAD locally.

- EN 54-23 Certified Category O VAD
- 0.5Hz Flash Rate (white)
- Volume control from the fire control panel
- 15 pairs of tones
- Built-in isolator
- Unique acoustic and VAD self-test
- EN 54-3 Certified Sounder

45681-700
Discovery Sounder VAD Base with Isolator

Discovery Sounder Base with Isolator

The Discovery Sounder Base makes the full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- 15 pairs of tones
- It is possible to set individual volume of the sounder from the fire control panel
- Tones can be used for other purposes in addition to warning of fire, ideal for schools
- Enables soft start option, ideal for hospitals and nursing homes
- Unique acoustic and visual indicator self-test

45681-702
Discovery Sounder Base with Isolator

XPERT 7 Card

XPERT 7 Cards are supplied with all XPERT 7 Mounting Bases. Using a coding guide, Part No. 39214-481, pips are removed to set the address of the inserted detector.

- Simplifies and speeds-up installation and commissioning
- Uses patented, proven technology
- Address remains the same, no matter how often detectors are replaced
- Flexibility to create any address

38531-771
Blank XPERT 7 Card

45682-127
Pre-Addressed XPERT 7 Cards

Discovery Open-Area Sounder Visual Indicator

The Discovery Open-Area Sounder Visual Indicator uses Discovery Protocol and is designed for use in indoor and open areas. When a fire system is being commissioned, a 'Magnetic Wand' can be used to adjust and test each sounder locally.

- 15 tone pairs
- Individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the fire control panel
- Tones can be used for other purposes in addition to warning of fire, making the device ideal for use in schools etc.
- Soft start option, ideal for hospitals and nursing homes
- Group and global control for increased response time

58000-005
Discovery Open-Area Sounder Visual Indicator (red)

58000-007
Discovery Open-Area Sounder Visual Indicator (white)

29650-001
Magnetic Wand

Discovery Open-Area Voice Sounder and Sounder Visual Indicator

Discovery Open-Area Voice Alarm Devices comprise a sounder and a sounder visual indicator that have been designed to provide clear instructional messages through the Discovery protocol. They are loop powered wall mounted devices.

- Four pre-set message pairs
- Capable of up to 15 tone message pairs
- Low current and high volume
- Fully synchronised
- Set up and test at point of installation

58000-010
Discovery Open-Area Voice Sounder (red)

58000-020
Discovery Open-Area Voice Sounder (white)

58000-030
Discovery Open-Area Voice Sounder Visual Indicator (red)

58000-040
Discovery Open-Area Voice Sounder Visual Indicator (white)

Category C Loop Powered VAD

The Loop Powered VAD is designed for indoor use. The Category C VAD is specifically designed for use on a ceiling and comes in two different coverage classes. The two EN 54-23 coverage classes are C-3-8.5 and C-3-15. These devices are used to supplement sounders in areas which carry the risk that sounders will not be heard.

- EN 54-23 approved
- High-intensity LED
- Lockable
- Available in red and white body
- White flash only

55000-740
Loop Powered VAD 15m (red)

55000-742
Loop Powered VAD 8.5m (red)

55000-743
Loop Powered VAD 15m (white)

55000-745
Loop Powered VAD 8.5m (white)

Category W Loop Powered VAD

The Loop Powered VAD is designed for indoor use. The Category W VAD is specifically designed for use on the wall. The EN 54-23 coverage class for this device is W-2.5-7. These devices are used to supplement sounders in areas which carry the risk that sounders will not be heard.

- EN 54-23 approved
- High-intensity LED
- Lockable
- Available in red and white body
- White flash only

55000-741
Loop Powered VAD 7m (red)

55000-744
Loop Powered VAD 7m (white)

Intelligent Manual Call Point

The Apollo range of Intelligent Manual Call Points have been designed to comply with European standard EN 54-11. In addition, the call points include a number of features designed to make installation and testing quick, easy and cost-effective. They can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable operating element
- Easy access, front reset mechanism
- E-Z fit connector system for installation
- EN 54-11 & EN 54-17 Certified
- Front-facing LED
- Continuity link for cable insulation testing
- Suitable for semi-flush or surface mounting

SA5900-908
Intelligent Manual Call Point

Intelligent Manual Call Point (Non-Standard)

Apollo Intelligent Manual Call Points (Non-Standard) are intended for indoor applications and are available in a variety of different colours for different applications such as initiating a hazard rather than a fire alarm. They can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable element for testing
- Easy access, front reset mechanism
- Variety of colours for different applications

Intelligent Manual Call Point (Non-Standard):

SA5900-903 White †
SA5900-904 Yellow †
SA5900-905 Blue †
SA5900-906 Green †
SA5900-907 Orange †

Apollo Waterproof Manual Call Point

The Apollo Waterproof Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. The manual call point interrupts the polling cycle for a fast response, when activated. A combined LED indicator and front reset mechanism allows for a simple reset.

- EN 54-11 approved (EN 54-17 approved for Isolator version)
- A unique, ergonomically designed key for resetting and front cover removal
- Captive screws

58200-950
Apollo Waterproof Manual Call Point

58200-951
Apollo Waterproof Manual Call Point with Isolator

58200-953
Apollo Waterproof Manual Call Point with Isolator Yellow †

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

Interfaces

Apollo manufactures a comprehensive range of interfaces for systems which enable fire protection solutions to be engineered simply and effectively without the need for custom-designed equipment. These interfaces are available for use on Apollo addressable systems.

1 STANDARD INTERFACES

Input/Output Unit

55000-847
Input/Output Unit

Three Channel Input/Output Unit

55000-588
Three Channel Input/Output Unit*

Output Unit

55000-849
Output Unit

Sounder Control Unit

55000-852
Sounder Control Unit

Switch Monitor

55000-843
Switch Monitor

Switch Monitor Plus

55000-841
Switch Monitor Plus

Zone Monitor

55000-845
Zone Monitor

Mains Switching Input/Output Unit

55000-875
Mains Switching Input/Output Unit

Locally Powered Zone Monitor

55000-864
Locally Powered Zone Monitor

2 DIN-RAIL INTERFACES

DIN-Rail Input/Output Unit

55000-803
DIN-Rail Input/Output Unit

DIN-Rail Output Unit

55000-804
DIN-Rail Output Unit

DIN-Rail Switch Monitor

55000-822
DIN-Rail Switch Monitor

DIN-Rail Mains Input/Output Unit

55000-797
DIN-Rail Mains Input/Output Unit

DIN-Rail Interface Enclosures

29600-239
DIN-Rail Interface Enclosure (4 units)

29600-240
DIN-Rail Interface Enclosure (10 units)

DIN-Rail Sounder Controller (5 Amperes)

55000-182
DIN-Rail Sounder Controller (5 Amperes)

DIN-Rail Switch Monitor Plus

55000-821
DIN-Rail Switch Monitor Plus

DIN-Rail Zone Monitor with Isolator

55000-812
DIN-Rail Zone Monitor with Isolator

DIN-Rail Dual Isolator

55000-802
DIN-Rail Dual Isolator

3 MINI SWITCH MONITOR

55000-760
Mini Switch Monitor

* A Standard Enclosure specific to 3 Channel Input/Output Unit.

The XP95 range of analogue addressable fire detectors combines proven design with performance resulting in unique features that benefit the installer and end user.

The range features smoke detectors (optical and ionisation), standard and high temperature heat detectors and a multisensor.

Beam detectors, flame detectors, manual call points, audio visual signalling devices, interface units and isolators complete the range. XP95 has a 'central intelligence' system where all the decisions are made by the fire control panel.

Apollo has used an open protocol since 1986 and has ensured backward compatibility when developing new products. An open protocol allows freedom of choice for the fire system specifier, installer and end user. A system using a digital communication protocol has a high immunity from corruption and is therefore often preferred in a large system where life safety is critical. XP95 is suitable for medium to large applications with simple installation requirements.

XP95 RANGE

Find out more information at:
apollo-fire.co.uk/xp95

KEY FEATURES OF XP95 INCLUDE:

- Alarm flag for fast alarm reporting
- Alarm address for fast location of alarm
- XPERT 7 Card addressing
- Electronics-free base
- Easy installation
- Elegant design

LPCB VdS CE 0832

XP95 Optical Smoke Detector

The XP95 Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure

55000-600
XP95 Optical Smoke Detector

55000-620
XP95 Optical Smoke Detector (VdS)

55000-660
XP95 Optical Smoke Detector (black)

XP95 Ionisation Smoke Detector

The XP95 Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chambers and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Minimal effects from temperature, humidity, atmospheric pressure
- Well-protected against electromagnetic interference over a wide frequency range

55000-500
XP95 Ionisation Smoke Detector

55000-520
XP95 Ionisation Smoke Detector (VdS)

XP95 Multisensor Detector

The XP95 Multisensor Detector contains an optical smoke sensor and a thermistor temperature sensor whose outputs are combined to give the final analogue value.

- Sensitive to a wide range of fires
- Well-suited to environments such as hotel bedrooms
- Unaffected by wind or atmospheric pressure

55000-885
XP95 Multisensor Detector

XP95 Heat Detector

The XP95 Heat Detector monitors temperature by using a single thermistor which provides a count output proportional to the external air temperature. The XP95 range features two heat detectors, standard and high temperature. The standard heat detector is classified as an A2S device and will report an alarm at 55°C. The high temperature detector, classified as a CS device, will report an alarm at 90°C.

- Ideal in environments that are dirty or smoky under normal conditions
- Well-suited to warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure

55000-400
XP95 Heat Detector A2S

55000-420
XP95 Heat Detector A2S (VdS)

55000-401
XP95 Heat Detector CS

Intelligent Mounting Base

All detectors in the XP95 range fit the Intelligent Mounting Base. The mounting base is a low insertion force base with stainless steel contacts for the detector terminals. XPERT 7 Cards are supplied with all XPERT 7 Mounting Bases.

- XPERT addressing
- One-way fit of detector
- Locking feature to prevent unauthorised removal

45681-210
Intelligent Mounting Base

45681-361
Intelligent Mounting Base (black)

Intelligent Deep Base

The Intelligent Deep Base is a mounting base for XP95 products which has an increased depth allowing for cables to be inserted from the side.

- Enables surface wiring
- XPERT 7 Card addressing
- Locking feature to prevent unauthorised detector removal

45681-209
Intelligent Deep Base

Intelligent Low Power Relay Base

The Intelligent Low Power Relay Base incorporates a low power relay to control field equipment.

- Provides a set of voltage-free contracts controlled by the remote output of a detector
- Draws negligible current
- Capable to switching up to 30V at 1A

45681-242
Intelligent Low Power Relay Base

Intelligent Heater Base

The Intelligent Heater Base is designed to be used in cold climates where environmental conditions could result in either icing or condensation affecting the operation of detectors. It is recommended that the heater base be used in conjunction with either a Waterproof Base Cover or Deckhead Mounting Box to minimise moisture ingress.

- Raises the ambient temperature of a detector chamber by approximately 10°C
- Limits the risk for loss of functionality caused to detectors installed in cold conditions

45681-219
Intelligent Heater Base

45681-519
Waterproof Base Cover

45681-217
Deckhead Mounting Box

Isolating Base

The new style Isolating Base senses and detects short-circuit faults on XP95 loops and spurs.

Up to 20 detectors, or their equivalent load, may be installed between isolating bases

High-brightness LED

45681-284
Isolating Base

Isolator Base

The Isolator Base is unique and designed to only accept the Isolator 55000-720.

45681-211
Isolator Base

Isolator

The Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

Detects wiring short-circuits using patented technology

Minimises disruption from short-circuits

Automatic de-isolation on short-circuit removal

Up to 20 detectors, or their equivalent load, may be installed between isolators

55000-720
Isolator

MiniDisc Remote Indicator

The MiniDisc Remote Indicator is a lightweight, compact red LED indicator for use in fire detection systems.

- Can be used across the entire Apollo range
- Small and discreet
- Anti-tamper screw to protect against unauthorised removal

53832-070
MiniDisc Remote Indicator

XP95 Sounder VAD Base with Isolator

The XP95 Sounder VAD Base is a loop-powered sounder and EN 54-23 approved VAD combined with a standard intelligent mounting base. It is used to signal a fire alarm in enclosed areas.

- EN 54-23 Certified Category O VAD
- 0.5Hz Flash Rate (white)
- Synchronisation of 'alert' and 'evacuate' tones
- Synchronisation of visual indicator flash
- Individual and group addressing
- Unique acoustic and VAD self-test
- Built-in isolator
- EN 54-3 Certified Sounder

45681-705
XP95 Sounder VAD Base with Isolator

45681-706
XP95 Sounder VAD Base
Slow Whoop with Isolator

45681-707
XP95 Sounder VAD Base
DIN Tone with Isolator

XP95 VAD Base with Isolator

The XP95 VAD Base is a loop-powered EN 54-23 approved VAD combined with a standard intelligent mounting base. It is used to signal a fire alarm in enclosed areas.

- EN 54-23 Certified Category O VAD
- 0.5Hz Flash Rate (white)
- Synchronisation of VAD flash
- Individual and group addressing
- Unique VAD self-test
- Loop-powered
- Built-in isolator

45681-709
XP95 VAD Base with Isolator

XPERT 7 Card

XPERT 7 Cards are supplied with all XPERT 7 Mounting Bases. Using a coding guide Part No. 39214-481, pips are removed to set the address of the inserted detector.

- Simplifies and speeds up installation and commissioning
- Uses patented, proven technology
- Address remains the same, no matter how often detectors are replaced
- Flexibility to create any address

38531-771
Blank XPERT 7 Card

45682-127
Pre-Addressed XPERT 7 Cards

Multi-Tone Open-Area Sounder

The Multi-Tone Open-Area Sounder is designed for use in open areas and can be connected to any Discovery or XP95 system.

- Updated to include choice of tones: Apollo, Slow Whoop and DIN
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of tones
- Individual and group addressing
- Loop-powered
- Red or white options
- IP21C rated
- IP66 rated (weatherproof versions)

55000-278
Multi-Tone Open-Area Sounder (red)

55000-279
Multi-Tone Open-Area Sounder (white)

55000-274
Weatherproof Multi-Tone Open-Area Sounder (red)

55000-275
Weatherproof Multi-Tone Open-Area Sounder (white)

Intelligent Open-Area Sounder

The Intelligent Open-Area Sounder has been designed for use in open areas and can be connected to any Discovery or XP95 system.

- Self-test fault monitoring
- Choice of tones on standard device: Apollo, Slow Whoop and DIN
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of tones
- Individual and group addressing
- Built-in isolator
- Red or white options
- Loop-powered
- IP65 rated

55000-001
Intelligent Open-Area Sounder (red)

55000-002
Intelligent Open-Area Sounder (white)

Intelligent Open-Area Visual Indicator

The Intelligent Open-Area Visual Indicator has been developed for use in open areas where there is a risk that sounders will not be heard.

- For use with XP95 & Discovery systems
- Self-test fault monitoring
- IP65 rated
- Individual and group addressing
- Synchronisation of flashes
- Comes with Isolating Base as standard
- Loop-powered
- Red and clear lens options

55000-009
Intelligent Open-Area Visual Indicator

55000-010
Intelligent Open-Area Visual Indicator (clear lens)

Category C Loop Powered VAD

The Loop Powered VAD is designed for indoor use. The Category C VAD is specifically designed for use on a ceiling and comes in two different coverage classes. The two EN 54-23 coverage classes are C-3-8.5 and C-3 15. These devices are to supplement sounders in areas which carry the risk that sounders will not be heard.

- EN 54-23 approved
- High-intensity LED
- Lockable
- Available in red and white body
- White flash only

55000-740
Loop Powered VAD 15m (red)

55000-742
Loop Powered VAD 8.5m (red)

55000-743
Loop Powered VAD 15m (white)

55000-745
Loop Powered VAD 8.5m (white)

Category W Loop Powered VAD

The Loop Powered VAD is designed for indoor use. The Category W VAD is specifically designed for use on the wall. The EN 54-23 coverage class for this device is W-2.5-7. These devices are to supplement sounders in areas which carry the risk that sounders will not be heard.

- EN 54-23 approved
- High-intensity LED
- Lockable
- Available in red and white body
- White flash only

55000-741
Loop Powered VAD 7m (red)

55000-744
Loop Powered VAD 7m (white)

Intelligent Manual Call Point

The Apollo range of Intelligent Manual Call Points have been designed to comply with European standard EN 54-11. In addition, the call points include a number of features designed to make installation and testing quick, easy and cost effective. They can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable operating element
- Easy access, front reset mechanism
- E-Z fit connector system for installation
- EN 54-11 & EN 54-17 Certified
- Front-facing LED
- Continuity link for cable insulation testing
- Suitable for semi-flush or surface mounting

SA5900-908
Intelligent Manual Call Point

Intelligent Manual Call Point (Non-Standard)

Apollo Intelligent Manual Call Points (Non-Standard) are intended for indoor applications and are available in a variety of different colours for different applications such as initiating a hazard rather than a fire alarm. They can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable element for testing
- Easy access, front reset mechanism
- Variety of colours for different applications

Intelligent Manual Call Point (Non-Standard):

SA5900-903 White †
SA5900-904 Yellow †
SA5900-905 Blue †
SA5900-906 Green †
SA5900-907 Orange †

Apollo Waterproof Manual Call Point

The Apollo Waterproof Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. The manual call point interrupts the polling cycle for a fast response, when activated. A combined LED indicator and front reset mechanism allows for a simple reset.

- EN 54-11 approved (EN 54-17 approved for Isolator version)
- A unique, ergonomically-designed key for resetting and front cover removal
- Captive screws

58200-950
Apollo Waterproof Manual Call Point

58200-951
Apollo Waterproof Manual Call Point with Isolator

58200-953
Apollo Waterproof Manual Call Point with Isolator Yellow †

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

Interfaces

Apollo manufactures a comprehensive range of interfaces for systems which enable fire protection solutions to be engineered simply and effectively without the need for custom-designed equipment. These interfaces are available for use on an Apollo Addressable System.

1 STANDARD INTERFACES

Input/Output Unit

55000-847
Input/Output Unit

Three Channel Input/Output Unit

55000-588
Three Channel Input/Output Unit*

Output Unit

55000-849
Output Unit

Sounder Control Unit

55000-852
Sounder Control Unit

Switch Monitor

55000-843
Switch Monitor

Switch Monitor Plus

55000-841
Switch Monitor Plus

Zone Monitor

55000-845
Zone Monitor

Mains Switching Input/Output Unit

55000-875
Mains Switching Input/Output Unit

Locally Powered Zone Monitor

55000-864
Locally Powered Zone Monitor

2 DIN-RAIL INTERFACES

DIN-Rail Input/Output Unit

55000-803
DIN-Rail Input/Output Unit

DIN-Rail Output Unit

55000-804
DIN-Rail Output Unit

DIN-Rail Switch Monitor

55000-822
DIN-Rail Switch Monitor

DIN-Rail Mains Input/Output Unit

55000-797
DIN-Rail Mains Input/Output Unit

DIN-Rail Interface Enclosures

29600-239
DIN-Rail Interface Enclosure (4 units)

29600-240
DIN-Rail Interface Enclosure (10 units)

DIN-Rail Sounder Controller (5 Amperes)

55000-182
DIN-Rail Sounder Controller (5 Amperes)

DIN-Rail Switch Monitor Plus

55000-821
DIN-Rail Switch Monitor Plus

DIN-Rail Zone Monitor with Isolator

55000-812
DIN-Rail Zone Monitor with Isolator

DIN-Rail Dual Isolator

55000-802
DIN-Rail Dual Isolator

3 MINI SWITCH MONITOR

55000-760
Mini Switch Monitor

* A Standard Enclosure specific to 3 Channel Input/Output Unit.

Conventional

In conventional systems, detectors are wired as a circuit or zone. They signal fire conditions to a fire control panel by changing from a high to low impedance. The panel detects this impedance change by current monitoring and identifies the zone.

ORBIS AND SERIES 65 CONVENTIONAL DETECTORS ARE RECOMMENDED FOR A NUMBER OF APPLICATIONS INCLUDING:

- Cleanroom and EDP suites
- Hotel rooms, studio apartments and small flats
- Offices, long corridors, hospital wards and light industrial factories
- Warehouses and bars
- Loading bays and car parks
- Kitchens and laundry rooms
- Boiler rooms

CONVENTIONAL RANGE

Find out more information at:
apollo-fire.co.uk/conventional

orbis®

series 65®
9-33V

HOTEL ROOMS

For hotel rooms, studio apartments and small flats (up to 50 sq m) multisensor Orbis detectors and Series 65 optical detectors are recommended.

KITCHENS

A range of Orbis detectors including heat A1S, A2S, BS and CS as well as Series 65 CS detectors are recommended for kitchens and laundry rooms.

CAR PARKS

Orbis multisensor detectors, Series 65 heat A1R and BR detectors are recommended for car parks (enclosed and ventilated) and loading bays.

orbis®

Orbis is a modern and stylish conventional range developed with sophisticated technology previously only found in analogue addressable detectors. Orbis has been designed to make installation, commissioning and maintenance fast and simple.

Orbis comprises of optical smoke and multisensor detectors, seven grades of heat detector and a range of bases.

EACH TYPE OF DETECTOR IS AVAILABLE IN TWO VERSIONS:

- **STANDARD**
- **FLASHING LED**

ORBIS RANGE

Find out more information at:
apollo-fire.co.uk/orbis

KEY FEATURES OF ORBIS INCLUDE:

- Wide-operating voltage of 8.5-33 V DC
- Tolerates extreme operating conditions: -40°C to +70°C
- Electrically compatible with Series 60 and Series 65
- 360° visibility of LEDs
- Attractive and compact design
- Patented FasTest® reduces functional test to four seconds
- StartUp LED indicator for fast commissioning
- Calibrated sensitivity with automatic drift compensation and DirtAlert® warning
- SensAlert® LED to indicate faulty detectors
- Transient rejection algorithms reduce false alarms
- TimeSaver® Base

LPCB VdS CE 0832

Orbis Optical Smoke Detector

The Orbis Optical Smoke Detector operates on the well-established light scatter principle. The sensing technology used is radically different from previous optical detectors and significantly reduces false alarms.

- Responds well to slow-burning, smouldering fires
- Good performance in both black and white smoke
- Transient rejection algorithms reduce false alarms
- Automatic drift compensation with DirtAlert®, a yellow flashing LED, to easily identify dirty detectors
- Red flashing LED at StartUp confirms the device is operating. SensAlert®, yellow flashing LED indicates faulty operation
- FasTest® takes just four seconds to test and confirm detectors are functioning correctly
- DustDefy system prevents dust ingress while maintaining airflow

ORB-OP-12001-APO
Orbis Optical Smoke Detector

ORB-OP-12003-APO
Orbis Optical Smoke Detector with flashing LED

Orbis Multisensor Detector

The Orbis Multisensor Detector benefits from the same false alarm reduction technology as the optical detector, enhanced by the addition of a thermal sensing element.

- Responds well to fast-burning, flaming fires
- Transient rejection algorithms reduce false alarms
- Automatic drift compensation with DirtAlert®, a yellow flashing LED, to easily identify dirty detectors
- Red flashing LED at StartUp confirms the device is operating. SensAlert®, yellow flashing LED indicates faulty operation
- FasTest® takes just four seconds to test and confirm detectors are functioning correctly
- DustDefy system prevents dust ingress while maintaining airflow

ORB-OH-13001-APO
Orbis Multisensor Detector

ORB-OH-13003-APO
Orbis Multisensor Detector with flashing LED

Orbis Heat Detector

The Orbis Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature.

- Can be used for applications where smoke detectors are unsuitable
- Ideal in environments that are dirty or smoky under normal conditions
- Red flashing LED at StartUp confirms the device is operating. SensAlert®, yellow flashing LED indicates faulty operation
- FasTest® takes just four seconds to test and confirm detectors are functioning correctly

Standard:

ORB-HT-11001-APO A1R
ORB-HT-11166-APO A1S
ORB-HT-11002-APO A2S
ORB-HT-11003-APO BR
ORB-HT-11004-APO BS
ORB-HT-11005-APO CR
ORB-HT-11006-APO CS

With flashing LED:

ORB-HT-11013-APO A1R
ORB-HT-11167-APO A1S
ORB-HT-11014-APO A2S
ORB-HT-11015-APO BR
ORB-HT-11016-APO BS
ORB-HT-11017-APO CR
ORB-HT-11018-APO CS

Orbis LX Base

The Orbis LX Base has two slots for fixing screws at a spacing of 51mm to 69mm. Detectors fit into the base one-way only and require clockwise rotation without force to be plugged in.

- One-way fit
- Detector locking mechanism

ORB-MB-00012-APO
Orbis LX Base

TimeSaver® Base

The TimeSaver® Base is a design that provides installers with an open working area with fixing holes shaped to allow a fast mounting procedure.

- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Detector locking mechanism

ORB-MB-00001-APO
TimeSaver® Base with continuity switch

ORB-MB-00002-APO
TimeSaver® Base LX without continuity switch

TimeSaver® Diode Base

The TimeSaver® Diode Base has the same design as the standard TimeSaver® Base with the addition of a diode. It is used in systems which use active EOL monitoring for head removal.

- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Detector locking mechanism
- Continuity link for voltage testing of zone wiring prior to commissioning
- Other devices continue to work during unauthorised removal of detectors

ORB-DB-00003-APO
TimeSaver® Diode Base

For our range of Orbis Marine products see page 120

TimeSaver® Relay Base

The TimeSaver® Relay Base incorporates a single-pole voltage-free changeover contact for switching external equipment. When the detector changes to the alarm state, the relay is energised, causing the contact to change state. The contact will remain in this condition until the detector is reset.

- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Detector locking mechanism
- Continuity link for voltage testing of zone wiring prior to commissioning
- Capable of switching up to 30V at 1A

ORB-RB-10004-APO
TimeSaver® Relay Base

Sav-Wire Base

The Sav-Wire Base is designed to allow Orbis detectors to be used in Sav-Wire detection and alarm systems.

- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Detector locking mechanism
- Used in Sav-Wire systems

ORB-SW-10005-APO
Sav-Wire Base

TimeSaver® Deep Base

The TimeSaver® Deep Base is a mounting base for Orbis products which has an increased depth allowing for cables to be inserted into the side of the product.

- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Detector locking mechanism
- Enables surface wiring

ORB-MB-00019-APO
TimeSaver® Deep Base

Orbis Heater Base

The Orbis Heater Base is designed to be used in cold climates where environmental conditions could result in either icing or condensation affecting the operation of detectors. It is recommended that the heater base be used in conjunction with either a Waterproof Base Cover or Deckhead Mounting Box to minimise moisture ingress.

- Raises the ambient temperature of a detector chamber by approximately 10°C
- Limits the risk or potential for loss of functionality to detectors installed in cold conditions

ORB-HB-00020-APO
Orbis Heater Base

45681-519
Waterproof Base Cover

45681-217
Deckhead Mounting Box

MiniDisc Remote Indicator

The MiniDisc Remote Indicator is a light-weight, compact red LED indicator for use in fire detection systems.

- Can be used across the entire Apollo range
- Small and discreet
- Anti-tamper screw to protect against unauthorised removal

53832-070
MiniDisc
Remote Indicator

Conventional Manual Call Point

Apollo Conventional Manual Call Points comply with EN 54-11 and are available in both indoor and outdoor variants. Apollo also offers a yellow variant suitable for alternative applications.

- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-001
Conventional Manual
Call Point without LED

55100-002
Conventional Manual
Call Point without LED
(Non-Standard) yellow †

55100-003
Conventional Waterproof
Manual Call Point
without LED

55100-004
Conventional Waterproof
Manual Call Point
without LED
(Non-Standard) yellow †

Dual Switch Manual Call Point

The Dual Switch Manual Call Point provides volt free double pole change-over contacts suitable for normally open or normally closed multiple switching from a single activation point. A device is activated by pressing the resettable element. An activation status is indicated through the rotation of the resettable element, displaying yellow and black indication bars. The manual call point can be easily reset from the front using the supplied reset key.

- Resettable operating element
- Easy access, front reset mechanism
- Ergonomic reset key
- Double pole change-over contacts
- Suitable for semi-flush or surface mounting
- Optional transparent hinged cover

SA5900-011
Dual Switch
Manual Call Point

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

series 65® 9-33V

Series 65 incorporates well-proven sensing technologies together with advances in materials and electronics. Developed from the highly successful Series 60 range of detectors, Series 65 includes a chip (integrated circuit) based on that used in XP95 analogue addressable detectors.

Having a wide-operating voltage of 9-33 V, Series 65 detectors can be integrated into security systems when used with a relay base. The range consists of ionisation, integrating ionisation and optical smoke detectors, four grades of heat detector and a range of bases.

EACH TYPE OF DETECTOR IS AVAILABLE IN THREE VERSIONS:

- **STANDARD**
- **FLASHING LED**
- **FLASHING LED AND MAGNET-OPERATED TEST SWITCH**

SERIES 65 RANGE

Find out more information at:
apollo-fire.co.uk/series65

KEY FEATURES OF SERIES 65 INCLUDE:

- Wide-operating voltage of 9–33 V DC
- Wide-operating and storage temperature of -20°C to +60°C
- Can be used on security systems
- Electrically and mechanically compatible with Series 60
- Proven detection performance

LPCB VdS CE 0832 CE 0333

Series 65 Optical Smoke Detector

The Series 65 Optical Smoke Detector incorporates a pulsing LED located within the housing of the detector. The external detector moulding is identical to that of the ionisation detector, and has an indicator LED which is clear in quiescent state but produces a red light in alarm.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Flashing LED and magnet operated test switch option

55000-317
Series 65 Optical Smoke Detector

55000-316
Series 65 Optical Smoke Detector with flashing LED

55000-315
Series 65 Optical Smoke Detector with flashing LED and magnetic test

55000-308FRA
Series 65 Optical Smoke Detector (French market)

Series 65 Ionisation Smoke Detector

The Series 65 Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast burning, flaming fires
- Designed to operate in a variety of environments
- Flashing LED and magnet operated test switch option

55000-217
Series 65 Ionisation Smoke Detector

55000-216
Series 65 Ionisation Smoke Detector with flashing LED

55000-215
Series 65 Ionisation Smoke Detector with flashing LED and magnetic test

Series 65 Integrating Ionisation Smoke Detector

Ionisation detectors use a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm. Circuitry in the Integrating Ionisation Smoke Detector protects against transient levels of smoke above the normal threshold for up to 20 seconds.

- Responds well to fast burning, flaming fires
- Designed to operate in environments where transient levels of smoke may be expected
- Wide-operating voltage
- Flashing LED and magnet operated test switch option

55000-220
Series 65 Integrating Ionisation Smoke Detector

55000-219
Series 65 Integrating Ionisation Smoke Detector with flashing LED

55000-218
Series 65 Integrating Ionisation Smoke Detector with flashing LED and magnetic test

Series 65 Heat Detector

The Series 65 Heat Detector monitors temperature by using a dual thermistor network which provides a voltage output proportional to the external air temperature.

Can be used for applications where smoke detectors are unsuitable

Ideal environments that are dirty or smoky under normal conditions

Wide-operating voltage

55000-122 A1R standard

55000-121 A1R with flashing LED

55000-120 A1R with flashing LED and magnetic test

55000-127 BR standard

55000-126 BR with flashing LED

55000-125 BR with flashing LED and magnetic test

55000-132 CR standard

55000-131 CR with flashing LED

55000-130 CR with flashing LED and magnetic test

55000-137 CS standard

55000-136 CS with flashing LED

55000-135 CS with flashing LED and magnetic test

Series 65 Standard Base

The Series 65 Standard Base has been designed to enable detectors to be fitted without the need of force – particularly useful when fitting to suspended ceilings. All Series 65 bases have a one-way only fit. Detectors can be locked into place by a grub screw using a 1.5mm hexagonal screwdriver.

Detector locking mechanism

One-way fit

Easy to wire

Contains an earth connector

Contains no electrical parts

Terminal for remote indicator

45681-200
Series 65 Standard Base

Series 65 Diode Base

The Series 65 Diode Base is designed for use with conventional systems that have manual call points and detector bases on the same circuit. The base is fitted with a schottky diode on the 'L1 IN' and 'L1 OUT' wiring terminals. This base can only be used with compatible control equipment.

Detector locking mechanism

One-way fit

Easy to wire

Contains an earth connector

Continues to work during unauthorised removal of detectors

45681-201
Series 65 Diode Base

Series 65 Sav-Wire Base

The Series 65 Sav-Wire Base is designed to allow Series 65 detectors to be used in Sav-Wire detection and alarm systems.

Detector locking mechanism

One-way fit

Easy to wire

Contains an earth connector

45681-206
Series 65 Sav-Wire Base

Series 65 Standard Relay Base

The Series 65 Standard Relay Base provides one set of volt-free, changeover (form C) contacts that change state when the detector signals an alarm.

- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains an earth connector

45681-245
Series 65 Standard Relay Base

Series 65 Auxiliary Relay Base

The Series 65 Auxiliary Relay Base provides two sets of volt-free changeover contacts to facilitate the switching of a remote LED or other auxiliary device.

- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains an earth connector

45681-246
Series 65 Auxiliary Relay Base

Series 65 End-of-Line Relay Base

The Series 65 End-of-Line (EOL) Relay Base is intended for use with four-wire circuits and features two sets of changeover contacts and a power supervision relay.

- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains an earth connector

45681-247
Series 65 End-of-Line Relay Base (12V)

45681-248
Series 65 End-of-Line Relay Base (24V)

Series 65 12V Relay Base

The Series 65 12V Relay Base is designed for use in both fire and security systems. For fire systems a jumper on the PCB is fitted to a 'latching' position. For security systems the jumper is moved to another position so that the base is 'non-latching'.

- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains an earth connector
- Can be used in fire and security systems

45681-508
Series 65 12V Relay Base

MiniDisc Remote Indicator

The MiniDisc Remote Indicator is a light-weight, compact red LED indicator for use in fire detection systems.

- Can be used across the entire Apollo range
- Small and discrete
- Anti-tamper screw to protect against unauthorised removal

53832-070
MiniDisc Remote Indicator

Series 65 Sounder Base

The Series 65 Sounder Base is a high-efficiency conventional alarm sounder incorporating a base for the Series 65 range of detectors. The sounder base can be secured to a conduit box or surface mounted.

- 32 tones as standard
- Provides detection and alarm signal at one point
- Diode option available

45681-512
Series 65 Sounder Base

45681-513
Series 65 Sounder Base with Diode

45681-294
Base Cap (white)

45681-295
Base Cap (red)

Conventional Manual Call Point

Apollo Conventional Manual Call Points comply with EN 54-11 and are available in both indoor and outdoor variants. Apollo also offers a yellow variant suitable for alternative applications.

- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-001
Conventional Manual Call Point without LED

55100-002
Conventional Manual Call Point without LED (Non-Standard) yellow †

55100-003
Conventional Waterproof Manual Call Point without LED

55100-004
Conventional Waterproof Manual Call Point without LED (Non-Standard) yellow †

Dual Switch Manual Call Point

The Dual Switch Manual Call Point provides volt free double pole change-over contacts suitable for normally open or normally closed multiple switching from a single activation point. A device is activated by pressing the resettable element. An activation status is indicated through the rotation of the resettable element, displaying yellow and black indication bars. The manual call point can be easily reset from the front using the supplied reset key.

- Resettable operating element
- Easy access, front reset mechanism
- Ergonomic reset key
- Double pole change-over contacts
- Suitable for semi-flush or surface mounting
- Optional transparent hinged cover

SA5900-011
Dual Switch Manual Call Point

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

Two-Wire Technology

Apollo's two-wire detection and alarm products offer flexible system design with reduced wiring and installation costs. The varied application of two-wire technology makes it well-suited to small to medium sized projects.

TWO-WIRE TECHNOLOGY

Find out more information at:
apollo-fire.co.uk/twowire

AlarmSense®

Two-Wire AlarmSense® has been developed to make the design and installation of a fire detection and alarm system easier and more cost-effective for small to medium sized buildings. The range also allows an existing system to be extended or modified if necessary. This flexibility makes AlarmSense an excellent choice for use in Houses in Multiple Occupation (HMO's).

B&Bs AND HOTELS

The entire AlarmSense range has been designed to be compliant with BS 5839-1 and BS 5839-6 in addition to EN 54 standards. AlarmSense is also compliant with the Construction Products Regulation (CPR).

FLATS AND BEDSITS

Reduced wiring costs, quick and simple installation and false alarm reduction with 'non-priority' signalling makes AlarmSense perfectly suited to small residential projects.

HALLS OF RESIDENCE

The Two-Wire AlarmSense range incorporates a number of technologically advanced features such as the patented RemovAlert™ which alerts the fire control panel if a detector has been removed without authorisation.

KEY FEATURES OF ALARMSENSE INCLUDE:

- Patented RemovAlert™ head removal monitoring
- Local and general alarm switching
- Reduced wiring costs
- Quick and simple installation
- False alarm reduction with 'non-priority' signalling
- Flexible system design
- Detectors and call point alarms identifiable separately

CE 0843 CE 0832

AlarmSense Optical Smoke Detector

The AlarmSense Optical Smoke Detector works using the light scatter principle. The detector changes to alarm state at a pre-set threshold of smoke penetration into the sensing chamber.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- 360° visibility of LEDs
- Reduces false alarms
- Quick and simple installation

55000-390
AlarmSense Optical Smoke Detector

AlarmSense Integrating Optical Smoke Detector

The AlarmSense Integrating Optical Smoke Detector works using the light scatter principle. The detector has the ability to monitor and discard transient sources of smoke.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- 360° visibility of LEDs
- Reduces false alarms
- Quick and simple installation
- Designed to operate in environments where transient levels of smoke may be expected
- 20 second delay

55000-391
AlarmSense Integrating Optical Smoke Detector

AlarmSense Heat Detector

There are two heat detectors in the AlarmSense range designed to suit a wide variety of operating conditions. A static heat detector (CS) which responds only when a fixed temperature has been reached and a rate-of-rise detector (A1R) which has a fixed upper limit, but in addition, measures the rate of increase in temperature.

- Can be used for applications where smoke detectors are unsuitable
- Ideal for environments that are dirty or smoky under normal conditions
- CS detectors are ideal for use in environments with rapid temperature fluctuations such as boiler rooms
- Reduction of false alarms
- Quick and simple installation
- 360° visibility of LEDs

55000-190
AlarmSense Heat Detector A1R

55000-193
AlarmSense Heat Detector CS

AlarmSense Base

AlarmSense detectors can only be mounted into an AlarmSense Base. The base is used for installing detectors that do not require an integral sounder or sounder visual indicator.

- Detects the removal of a detector head and reports a fault
- Continues to work during unauthorised removal of detectors
- Quick and simple installation

45681-244
AlarmSense Base

AlarmSense Alarm Relay

The AlarmSense Alarm Relay enables devices such as Visual Indicator, pillow/bed alarms and radio vibrating or paging devices to be connected to the fire detection system. This allows the system to comply with the requirements of the DDA.

- Ensures DDA compliance

55000-835
AlarmSense Alarm Relay

MiniDisc Remote Indicator

The MiniDisc Remote Indicator is a light-weight, compact red LED indicator for use in fire detection systems.

- Can be used across the entire Apollo range
- Small and discreet
- Anti-tamper screw to protect against unauthorised removal

53832-070
MiniDisc Remote Indicator

For information on AlarmSense Compatible Control Panels, go to **www.apollo-fire.co.uk/alarmsensepanels**

AlarmSense Open-Area Sounder

The AlarmSense Open-Area Sounder is designed for use in open areas.

- Apollo tone – synchronised with AlarmSense sounders and sounder visual indicator bases
- Polarity-insensitive
- IP65 rated

55000-018
AlarmSense Open-Area Sounder

AlarmSense Open-Area Visual Indicator

The AlarmSense Open-Area Visual Indicator is designed for use in situations where there is a risk that sounders will not be heard.

- Synchronised flashing LEDs
- Polarity-insensitive
- IP65 rated

55000-035
AlarmSense Open-Area Visual Indicator

AlarmSense Open-Area Sounder Visual Indicator

The AlarmSense Open-Area Sounder Visual Indicator is designed for use in open areas.

- Apollo tone – synchronised with AlarmSense sounders and sounder visual indicator bases
- Synchronised flashing red LED on sounder visual indicators and visual indicators
- Polarity-insensitive
- IP65 rated

55000-017
AlarmSense Open-Area Sounder Visual Indicator

AlarmSense packages

Sounder Base combinations	
AlarmSense Optical Smoke Detector with Sounder Base	**55000-392**
AlarmSense Integrating Optical Smoke Detector with Sounder Base	**55000-393**
AlarmSense A1R Heat Detector with Sounder Base	**55000-196**
AlarmSense CS Heat Detector with Sounder Base	**55000-197**
Sounder Visual Indicator Base combinations	
AlarmSense Optical Smoke Detector with Sounder Visual Indicator Base	**55000-394**
AlarmSense Integrating Optical Smoke Detector with Sounder Visual Indicator Base	**55000-395**
AlarmSense A1R Heat Detector with Sounder Visual Indicator Base	**55000-198**
AlarmSense CS Heat Detector with Sounder Visual Indicator Base	**55000-199**

AlarmSense Sounder Base

The AlarmSense Sounder Base can only be used with AlarmSense systems. It is fitted with electronic circuitry to monitor the presence of detectors, and signals any unauthorised removal of detector heads. It is supplied with a high or low volume setting and red or white caps are available for stand-alone installation.

- Sounder range between 70dB(A) and 87dB(A)
- AlarmSense priority/non priority signal recognition
- Detects the removal of a detector head and reports a fault
- Continues to work during unauthorised removal of detectors
- Quick and simple installation
- Provides audible signal and detection at one point
- High and low volume ranges

45681-510
AlarmSense Sounder Base

45681-294
Base Cap (white)

45681-295
Base Cap (red)

AlarmSense Sounder Visual Indicator Base

The AlarmSense Sounder Visual Indicator Base is designed to be used with AlarmSense systems only. It is supplied with a high and low volume setting and red or white caps are available for stand-alone installation.

- Sounder range between 70dB(A) and 87dB(A)
- Detects the removal of a detector head and reports a fault
- Continues to work during unauthorised removal of detectors
- Quick and simple installation

45681-509
AlarmSense Sounder Visual Indicator Base

45681-294
Base Cap (white)

45681-295
Base Cap (red)

AlarmSense Manual Call Point

The AlarmSense Manual Call Point has been specifically designed to operate solely with the Apollo two-wire range. The Manual Call Point has a highly visible alarm indicator which is combined with the front reset mechanism allowing a quick and simple reset. The LED can be seen from up to 10 metres away.

- Resettable operating element
- Easy access, front resent mechanism
- Ergonomic reset key
- EN 54-11 Certified
- Front-facing LED
- Suitable for semi-flush or surface mounting

55400-894
AlarmSense Manual Call Point

Wireless Technology

Traditionally, fire detection systems in industrial and commercial applications have used hard wired installations. These systems are generally installed at the time of construction or refurbishment, making the laying of cables less of an issue. Certain applications do not lend themselves to this approach, such as occupied buildings and heritage sites, palaces, annexes etc. – situations where wireless systems provide the ideal solution.

WIRELESS TECHNOLOGY RANGE

Find out more information at:
apollo-fire.co.uk/xpander

XPANDER®

COMMERCIAL

It is sometimes challenging to introduce cable runs into buildings which were not designed for the modern age. It may also be that a collection of buildings, such as an open air museum, requires fire protection but is not suitable for normal wired systems. It is for commercial buildings of this kind, that XPander has been developed.

ARCHITECTURALLY SENSITIVE

XPander can be incorporated into fire detection systems in buildings where, the use of cables is either impractical or undesirable, such as palaces, stately homes and listed buildings.

ANNEXES

A collection of buildings may also require fire protection, but are not suitable for normal wired systems.

TEMPORARY STRUCTURES

XPander may also be used in sites with temporary buildings which need to be connected to a central fire control panel, but where wiring might present problems.

XPander is a range of wireless products where individual detectors, call points, alarm devices and interfaces communicate through a Loop Interface with an Apollo addressable system, using radio signals.

Radio communication of the XPander range of products is bi-directional and it is certified to the radio standard, EN 54-25. The XPander Diversity Loop Interface Unit is connected to the loop in the same way as any other device, such as an input/output unit.

Every XPander product is assigned an address which is recognised by the fire control panel in the same way as any hard wired device. The XPander range benefits from the patented XPERT card technology that is also used in Discovery and XP95.

XPander can be incorporated into fire detection systems where the use of fire cables is either impractical or undesirable, including stately homes and architecturally sensitive buildings.

XPANDER RANGE

Find out more information at:
apollo-fire.co.uk/xpander

KEY FEATURES OF XPANDER INCLUDE:

- Easy to install
- XPander XPERT Card addressing
- Self-monitoring
- Proven technology
- No special fire control panel needed
- 868MHz radio signalling
- Up to 31 devices per interface
- Up to five interfaces per loop
- All detectors within the XPander range are sold with mounting bases

CE 0359

LPCB

XPander Optical Smoke Detector and Mounting Base

The XPander Optical Smoke Detector works on the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Wireless
- Performs well in black and white smoke
- Bi-directional (monitored) radio communications
- XPERT card addressing system
- Five-year battery life using standard AA alkaline batteries

XPA-CB-12034-APO
XPander Optical Smoke Detector and Mounting Base

XPander Heat Detector and Mounting Base

There are two heat detectors in the XPander range, designed to suit a wide variety of operating conditions. A Static Heat Detector (CS) which responds only when a fixed temperature has been reached and a Rate-of-Rise Detector (A1R) which has a fixed upper limit, but in addition, measures the rate of increase in temperature.

- Wireless
- Can be used in applications where smoke detectors are unsuitable
- Ideal for environments that are dirty or smoky under normal conditions
- CS detectors are ideal for use in environments with rapid temperature fluctuations such as boiler rooms
- Bi-directional (monitored) radio platform
- Five-year battery life using standard AA alkaline batteries

XPA-CB-11170-APO
XPander Heat detector A1R and Mounting Base (Rate-of-Rise 57°C)

XPA-CB-11171-APO
XPander Heat detector CS and Mounting Base (Static 90°C)

XPander Input/Output Unit

The XPander Input/Output Unit is a radio based interface and offers two monitored input circuits and two relay outputs. It can be used for controlling fire doors, fire dampers, smoke vents and other fire engineering applications.

- Wireless
- Monitored switch circuit
- Voltage-free contacts
- Capable of switching up to 30V at 1A
- Five-year battery life using standard AA alkaline batteries

XPA-IN-14011-APO
XPander Input/Output Single Unit

XPA-IN-14012-APO
XPander Input/Output Dual Unit

XPander Diversity Loop Interface Unit

The XPander Diversity Loop Interface Unit can monitor up to 31 XPander devices and report each device's status to an intelligent fire control panel.

- Connects up to 31 XPander devices to an Apollo Addressable loop
- Translates radio signals from XPander detectors to the fire control panel
- Built-in loop isolator
- Loop-powered
- Diversity aerial design for improved signal integrity

XPA-IN-14050-APO
XPander Diversity Loop Interface Unit

XPander Diversity Survey Kit

The XPander Diversity Survey Kit is used at the site survey stage to ascertain if a site is suitable for an XPander installation. A site survey must be carried out before XPander can be installed. The Diversity Survey Kit is compliant to BS 5839-1.

- Indicates the suitability of proposed device location

XPA-TE-14075-APO
XPander Diversity Survey Kit

XPander XPERT Card

Address card supplied with all bases. Using a coding guide, pips are removed to set the address of the inserted device.

- Simplifies and speeds up installation and commissioning
- Address remains the same, no matter how often detectors are replaced
- Uses patented, proven technology
- Flexibility to create any address

29600-413
Blank XPander XPERT Card (white)

29600-399
Blank XPander XPERT Card (red)

XPander Sounder and Sounder Base

The XPander Sounder and Sounder Base is wireless and designed to be used with XPander detectors and manual call points.

Wireless
Bi-directional (monitored) radio platform
Choice of 32 selectable tones
Audible self-test available
Output is between 92 and 106db(A) at 1m – dependent on tone setting

XPA-CB-14001-APO
XPander Sounder and Sounder Base (red)

XPA-CB-14002-APO
XPander Sounder and Sounder Base (white)

XPander Sounder Visual Indicator and Sounder Base

The XPander Sounder Visual Indicator and Sounder Base is wireless and designed to be used with XPander detectors and manual call points.

Wireless
Bi-directional (monitored) radio platform
Choice of 32 selectable tones
Audible self-test available
Output is between 92dB(A) and 106dB(A) at 1m – dependent on tone setting

XPA-CB-14003-APO
XPander Sounder Visual Indicator (red) and Sounder Base (red)

XPA-CB-14004-APO
XPander Sounder Visual Indicator (amber) and Sounder Base (white)

XPA-CB-14005-APO
XPander Sounder Visual Indicator (white) and Sounder Base (white)

XPander Manual Call Point

The XPander Manual Call Point is compliant with EN 54-11. It is wireless and is powered by two independent packs of three AA alkaline batteries with a typical five-year life.

Wireless
XPander XPERT Card addressing
Resettable element
Fast response reports an alarm in under one second
LED to indicate operation

XPA-MC-14006-APO
XPander Manual Call Point

Apollo offer a series of one day training courses. See page 7 for more information.

XPander Combined Sounder and Detector

The XPander Combined Sounder and Detector is wireless and designed to provide one point detection and notification.

Wireless
Available with a choice of XPander detectors
Bi-directional (monitored) radio platform
A choice of four tone pairs
Certified to EN 54-25

XPA-CB-14016-APO
XPander Combined Sounder and Optical Smoke Detector

XPA-CB-14017-APO
XPander Combined Sounder and Heat Detector A1R

XPA-CB-14018-APO
XPander Combined Sounder and Heat Detector CS

XPander Combined Sounder Visual Indicator (red) and Detector

The XPander Combined Sounder Visual Indicator (red) and Detector is wireless and designed to provide a one point detection and notification.

Wireless
Available with a choice of XPander detectors
Bi-directional (monitored) radio platform
A choice of four tone pairs
Certified to EN 54-25

XPA-CB-14020-APO
XPander Combined Sounder Visual Indicator (red) and Optical Smoke Detector

XPA-CB-14021-APO
XPander Combined Sounder Visual Indicator (red) and Heat Detector A1R

XPA-CB-14022-APO
XPander Combined Sounder Visual Indicator (red) and Heat Detector CS

XPander Combined Sounder Visual Indicator (white) and Detector

The XPander Combined Sounder Visual Indicator (white) and Detector is wireless and designed to provide a one point detection and notification.

Wireless
Available with a choice of XPander detectors
Bi-directional (monitored) radio platform
A choice of four tone pairs
Certified to EN 54-25

XPA-CB-14024-APO
XPander Combined Sounder Visual Indicator (white) and Optical Smoke Detector

XPA-CB-14025-APO
XPander Combined Sounder Visual Indicator (white) and Heat Detector A1R

XPA-CB-14026-APO
XPander Combined Sounder Visual Indicator (white) and Heat Detector CS

Accessories

XPander Combined Sounder and Sounder Visual Indicator Bases can be purchased as accessories:

XPA-WB-14036-APO
XPander Combined Sounder and Detector Base

XPA-WB-14037-APO
XPander Combined Sounder Visual Indicator (red) and Detector Base

XPA-WB-14038-APO
XPander Combined Sounder Visual Indicator (white) and Detector Base

Specialist Detectors

Apollo offers several types of detector for specialist applications, including Duct Detectors, Flame Detectors, Beam Detectors and Aspirating Smoke Detectors. These are all designed for very specific circumstances covering commercial heating and ventilation ducts, dirtier environments where flaming fires may be expected, and protection of large, open spaces.

SPECIALIST DETECTOR RANGE

Find out more information at:
apollo-fire.co.uk/specialistdetectors

There are many important factors to consider when deciding on a specialist detector. If you have specialised needs for fire detection, please contact our Product Support Department, details of which can be found on the Apollo website.

HEATING & VENTILATION DUCTS

Duct detectors will detect smoke within the heating and ventilation ducts of large commercial buildings.

MANUFACTURING, PRINTING & WASTE

IR Flame Detectors will tolerate dirtier environments such as waste handling plants, colour printing facilities and paper manufacturers.

THEATRES & SPORTS CENTRES

Beam detectors can project an infra-red light up to 100m and a height of 25m, making them perfect for large open spaces such as theatres and sports facilities.

Duct Detectors & Aspirating Smoke Detectors

Duct detectors are designed for detecting smoke in the air moving through heating and ventilation (HVAC) ducts in commercial and industrial applications.

They comprise of a purpose-built housing complete with integral tubing, which samples the fast-moving air so that the detector can operate in the normal way.

Aspirating Smoke Detectors are a professional air-sampling unit, designed to complement analogue addressable system technology by combining standard field-serviceable smoke detectors with a stand-alone air sampling solution.

They are ideal for the protection of difficult to access, environmentally demanding, aesthetic or architecturally restricted areas.

Apollo's range of Aspirating Smoke Detectors are approved to EN 54-20.

Have you seen the latest technology solutions from Apollo, including OpenConnect?

See page 6 for more information or visit **www.open-connect.co.uk**

DUCT DETECTORS & ASPIRATING SMOKE DETECTORS RANGE

Find out more information at:
apollo-fire.co.uk/specialistdetectors

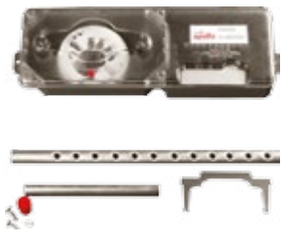
Intelligent Duct Smoke Detector

The Intelligent Duct Smoke Detector provides early detection of smoke in the air moving through heating and ventilation (HVAC) ducts in commercial and industrial premises. Its purpose is to prevent the re-circulation of smoke from an area on fire to areas unaffected by the fire when used with a XP95 or Discovery detector.

- Operates in air speeds of 0.5m/s to 20m/s
- Transparent cover to view detector head LED
- Integral smoke test port

53546-022
Intelligent Duct Smoke Detector

Conventional Duct Smoke Detector



The Conventional Duct Smoke Detector provides early detection of smoke in the air moving through heating and ventilation (HVAC) ducts in commercial and industrial premises. Its purpose is to prevent the re-circulation of smoke from an area on fire to areas unaffected by the fire when used with a Series 65 or Orbis detector. It provides a volt-free changeover relay rated at 30V, 1A.

- For use with Series 65 or Orbis detectors
- Operates in air speeds of 0.5m/s to 20m/s
- Transparent cover to view detector head LED
- Integral smoke test port
- Volt-free contacts

53546-021
Series 65 Duct Smoke Detector

53546-023
Orbis Duct Detector

Aspirating Smoke Detector (ASD)

The Discovery Aspirating Smoke Detector (ASD) is a point based professional air-sampling unit, designed to complement analogue addressable system technology. It combines standard field serviceable smoke detectors with a stand-alone air sampling solution to provide protection of difficult to access, environmentally demanding, aesthetic or architecturally restricted areas.

- EN 54-20 approved
- Available as a single (ASD-1) sampling unit or dual (ASD-2) sampling unit
- Uses the Discovery Optical Analogue Addressable Detector
- Addressable monitoring of fail-safe fault relays
- The ASD can be installed up to 50m away from the sampling point
- IP65 rated enclosure

29650-081
Discovery ASD-1

29650-082
Discovery ASD-2

*ASD-1 pictured

Extension tubes

The duct smoke detector is designed to operate in ducts with a width of between 300mm and 3000mm. A sampling tube of 360mm, suitable for duct widths up to 540mm, is supplied as standard. Longer sampling tubes may be ordered separately:

Duct width	
300-750 mm	53541-170
750-1500 mm	53541-171
1500-3000 mm	53541-172

Flame Detectors

Flame detectors are effective in protecting areas where flaming fires may be expected.

THERE IS A CHOICE OF DETECTION TECHNIQUES – ULTRAVIOLET (UV), INFRA-RED (IR) OR A COMBINATION OF BOTH:

IR²: high immunity to false sources (indoor areas)

IR³: excellent immunity to false sources (indoor or outdoor areas)

UV/IR²: highest immunity to false sources (indoor or outdoor areas)

UV flame detectors are generally used in engine room, factory and warehouse applications.

IR flame detectors are able to tolerate dirtier environments which may block UV radiation and are generally used in applications such as waste handling, colour printing and paper manufacturing.

Apollo's range of flame detectors comply with EN 54-10.

FLAME DETECTORS

Find out more information at:
apollo-fire.co.uk/specialistdetectors

0832

Intelligent IR² Flame Detector

The Intelligent IR² Flame Detector is designed for harsh environments in indoor applications. The detector has two sensors which respond to different IR wavelengths to distinguish between flames and spurious sources of radiation.

- Loop-powered
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- Compatible with Discovery and XP95 protocols
- Remote optical self-test function
- 90° field of view
- Up to 40m coverage
- IP65 rated

55000-280
Intelligent IR² Flame Detector

Intelligent IR³ Flame Detector

The Intelligent IR³ Flame Detector is designed for harsh environments in either indoor or outdoor applications. It is sensitive to low-frequency, flickering infra-red radiation emitted by flames during combustion.

- Loop-powered
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- False alarms due to lighting or flickering sunlight are minimised
- Compatible with Discovery and XP95 protocols
- 90° field of view
- Up to 40m coverage
- IP65 rated

55000-020
Intelligent IR³ Flame Detector

Stainless Steel Intelligent IR³ Flame Detector

The Stainless Steel Intelligent IR³ Flame Detector combines high performance with added protection against the effects of salt corrosion, making it ideal for most marine applications. The protection from salt corrosion, is provided by a tough, heavy-duty housing made from stainless steel material. It can rapidly detect all types of flames, including hydrogen, which is invisible to the human eye.

- Operation with control equipment using Apollo's class leading XP95 or Discovery protocol
- Quick and easy stainless steel 2 axis adjustable mounting bracket

55000-034
Stainless Steel Intelligent IR³ Flame Detector

Intelligent Flameproof IR² Flame Detector

The Intelligent Flameproof IR² Flame Detector is designed for hazardous environments in indoor applications. The detector has two sensors which respond to different IR wavelengths to distinguish between flames and spurious sources of radiation. These detectors are BASEEFA approved and meet the requirements of ATEX Directive 94/9/EC.

- Sensitive to flickering IR radiation
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- Compatible with Discovery and XP95 protocols
- Remote optical self-test function
- 90° field of view
- Up to 40m coverage
- IP66 rated
- Ex d IIC T4 Gb
  Ex tb IIIC T135oC
  Db IP66A21
  (Tamb -40C to + 125C)

55000-295
Intelligent Flameproof IR² Flame Detector

Intelligent Flameproof IR³ Flame Detector

The Intelligent Flameproof IR³ Flame Detector is designed for hazardous environments in either indoor or outdoor applications. It is sensitive to low-frequency, flickering infra-red radiation emitted by flames during combustion. These detectors are BASEEFA approved and meet the requirements of ATEX Directive 94/9/EC.

- Loop-powered
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- Compatible with Discovery and XP95 protocols
- 90° field of view
- Up to 40m coverage
- IP66 rated
- Ex d IIC T4 Gb
  Ex tb IIIC T135oC
  Db IP66A21
  (Tamb -40C to + 125C)

55000-021
Intelligent Flameproof IR³ Flame Detector

Flame Detector Bracket

The Flame Detector Bracket is an optional accessory for Flame Detectors. It is a stainless steel mounting bracket adjustable in two axis. Not suitable for Base Mounted Flame Detectors.

- Allows flame detector to be mounted in any orientation

29600-203
Flame Detector Bracket

Flame Detector Weather Shield

The Flame Detector Weather Shield protects the device from inclement conditions.

- Protects against water ingress
- Protects sensor from direct sunlight

29600-206
Flame Detector Weather Shield

29600-228
Flame Detector Weather Shield for flameproof version

Flameproof (Exd) UV/IR² Flame Detector

The Flameproof UV/IR² Flame Detector is designed for hazardous environments in either indoor or outdoor applications where open fires may be expected. False alarms from flickering sunlight, arc welding or lightning are avoided by the combination of UV and dual IR signal processing techniques. It detects almost all flames, including those invisible to the naked eye, e.g. hydrogen fires. Certified by ISSOP for compliance with standards EN 50014, EN 50018 and EN 50281.

- ATEX certified: II 2 G D
- CENELEC/IEC certified: EEx d – IIC T6- [Zones 1, 21, 2 and 22]
- Class 1 sensitivity to EN 54-10 detects 0.1m² fire at 25m
- Highest optical interference immunity
- Selectable output options: Conventional two-wire, 4-20mA, Relay Contacts – Fire/Fault, Pre-alarm, Latching or Non-Latching
- Selectable response speed
- Remote control self-test
- Low power consumption
- IP66 rated
- Supply voltage 14 to 30V dc
- Operating temperature -10°C to +55°C

55000-065
Flameproof (Exd) UV/IR² Flame Detector

Flameproof (Exd) IR² Flame Detector

The Flameproof IR² Flame Detector is designed for use in hazardous environments in indoor applications. The combination of filters and signal processing allows the sensor to be used with a very low risk of false alarms in difficult situations characterised by factors such as flickering lights. BASEEFA has certified the detector for compliance to standards EN 60079-0, EN 60079-1 and EN 61241-1.

- ATEX & IECEx certified: II 2GD Ex d IIC T4 Gb Ex tb IIIC T135°C Db IP66 A21 [Zones 1, 21, 2 and 22]
- Selectable output options: Conventional 2 wire, 4-20mA, Latching or Non-Latching, Relay Contacts – Fire/Fault, Pre-alarm
- Class 1 sensitivity to EN 54-10 detects 0.1m² fire at 25m
- High optical interference immunity
- Selectable response speed
- Optical self-test
- Low power consumption
- IP66 rated
- Supply voltage 14 to 30V dc
- Operating temperature -10°C to +55°C

55000-061
Flameproof (Exd) IR² Flame Detector

Flameproof (Exd) IR³ Flame Detector

The Flameproof IR³ Flame Detector is designed for use in hazardous environments in indoor and outdoor applications. It is sensitive to low-frequency flickering infra-red radiation emitted by flames during combustion. The sensor operates even through a layer of oil, dust, water vapour or ice. BASEEFA has certified the detector for compliance to standards EN 60079-0, EN 60079-1 and EN 61241-1.

- ATEX & IECEx certified: II 2GD Ex d IIC T4 Gb Ex tb IIIC T135°C Db IP66 A21 [Zones 1, 21, 2 and 22]
- Selectable output options: Conventional 2 wire, 4-20mA, Latching or Non-latching, Relay Contacts – Fire/Fault, Pre-alarm
- Class 1 sensitivity to EN 54-10 detects 0.1m² fire at 25m
- High optical interference immunity
- Selectable response speed
- Optical self-test
- Low power consumption
- IP66 rated
- Supply voltage 14 to 30V dc
- Operating temperature -10°C to +55°C

55000-062
Flameproof (Exd) IR³ Flame Detector

I.S. IR³ Flame Detector

The I.S. IR³ Flame Detector is designed for harsh environments in either indoor or outdoor applications. It is sensitive to low-frequency flickering IR radiation emitted from flames during combustion. The sensor operates even through a layer of oil, dust, water vapour or ice. These detectors have been approved by BASEEFA to EN 50014, EN 50020 and EN 50284. The requirements of Directive 94/9/EC, the Atmosphere Explosives ATEX Directive have also been met.

- ATEX certified: II 1 G
- CENELEC/IEC certified: Ga Ex ia IIC T4
- Selectable output options: Conventional two-wire, 4-20mA, Latching or Non-latching, Relay Contacts – Fire/Fault, Pre-alarm
- Class 1 sensitivity to EN 54-10 detects 0.1m² fire at 25m
- High optical interference immunity
- Selectable response speed
- Optical self-test
- Low power consumption
- IP65 rated
- Supply voltage 14 to 30V dc
- Operating temperature -10°C to +40°C (T4)

55000-063
I.S. IR³ Flame Detector

UV/IR² Flame Detector

The combination of UV and IR² detection, plus signal processing allows the sensor to be used without risk of false alarms in difficult situations characterised by factors such as flickering blackbody by radiation or arc welding.

- Selectable output options: Conventional two-wire, 4-20mA, Latching or Non-latching, Relay Contacts – Fire/Fault, Pre-alarm
- Class 1 sensitivity to EN 54-10 detects 0.1m² fire at 25m
- High optical interference immunity
- Selectable response speed
- Optical self-test
- Low power consumption
- IP65 rated
- Supply voltage 14 to 30V dc
- Operating temperature -10°C to +55°C

55000-064
UV/IR² Flame Detector

IR² and IR³ Flame Detectors

The IR² and IR³ Flame detectors are designed for harsh environments in indoor applications. The detectors have two or three sensors retrospectively, which respond to different IR wavelengths to discriminate between flames and spurious sources of radiation.

- Selectable output options: Conventional two-wire, 4-20mA, Latching or Non-latching, Relay Contacts – Fire/Fault, Pre-alarm
- Class 1 sensitivity to EN 54-10 detects 0.1m² fire at 25m
- High optical interference immunity
- Selectable response speed
- Optical self-test
- Low power consumption
- IP65 rated
- Supply voltage 14 to 28V dc
- Operating temperature -10°C to +55°C

55000-060
IR² Flame Detector

55000-019
IR³ Flame Detector

Intelligent Base Mounted UV Flame Detector

The Intelligent Base Mounted UV Flame Detector is designed to protect enclosed indoor areas where open fires may be expected. The detector has a fast-acting response to flames up to 25m away and is equipped with a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to UV radiation emitted by flames during combustion
- Compact flame detector which fits into Discovery or XP95 bases
- Loop-powered

55000-022
Intelligent Base Mounted UV Flame Detector

29600-458
Base Mounted Flame Detector Bracket*

Intelligent Base Mounted UV IR² Flame Detector

The Intelligent Base Mounted UV IR² Flame Detector is designed to protect open indoor areas such as aircraft hangers, generator rooms and paint works where open flaming fires may be expected. The detector has UV and dual IR sensors responding to different wavelengths in order to discriminate between flames and spurious sources of radiation.

- Sensitive to UV and low-frequency flickering IR radiation emitted by flames during combustion
- Compact flame detector which fits into Discovery or XP95 bases
- Loop-powered
- False alarms due to electrical discharges from lightning or arc welding and flickering sunlight are minimised

55000-023
Intelligent Base Mounted UV IR² Flame Detector

29600-458
Base Mounted Flame Detector Bracket*

Intelligent Base Mounted IR³ Flame Detector

The Intelligent Base Mounted IR³ Flame Detector is designed to protect all indoor areas, even in dirty or smoky conditions, where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.

- Sensitive to low-frequency flickering IR radiation emitted by flames during combustion.
- Compact flame detector which fits into Discovery or XP95 bases
- Loop-powered
- False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques

55000-024
Intelligent Base Mounted IR³ Flame Detector

29600-458
Base Mounted Flame Detector Bracket*

Conventional Base Mounted UV Flame Detector

The Conventional Base Mounted UV Flame Detector is designed to protect enclosed indoor areas where open flaming fires may be expected. The detector has a fast-acting response to flames up to 25m away and is equipped with a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to UV radiation emitted by flames during combustion
- Compact flame detector which fits into Series 65 bases
- Zone-powered
- To be used with either Series 65 or Orbis Systems

55000-025
Conventional Base Mounted UV Flame Detector

29600-458
Base Mounted Flame Detector Bracket*

*Combines a bracket and Deckhead Mounting Box (45681-217).

Beam Detectors

Beam Detectors offer a cost-effective solution for protecting large open spaces. One single unit installed on a wall can detect smoke over an area up to 1500m² (BS 5839), which is beyond that of traditional point detectors. Beams are therefore ideal for protecting areas such as warehouses, theatres and sports centres.

BEAM DETECTORS

Find out more information at:
apollo-fire.co.uk/specialistdetectors

TYPES OF BEAM DETECTOR:

Auto-Aligning: comprises a combined transmitter/receiver which is operated through a low-level, easy-access control console. As the name suggests the detector compensates for building movement.

Reflective: the combined transmitter/receiver projects a beam to a prism mounted on an opposite wall.

End-to-End: consists of a separate transmitter, receiver and interface.

There are many important factors to be considered when deciding which beam detector to select. For assistance, please contact our Product Support Department, details of which can be found on the Apollo website.

VdS CE 0786

Auto-Aligning Beam Detector with laser alignment

The high-performance Auto-Aligning Beam Detector comprises of a ground level controller, detector head with auto-aligning feature, integral laser for rapid initial alignment and single prism. An additional detector head can be added to the controller.

- Auto-compensates for building movement and contamination
- Integral laser and auto-align enable quicker installation
- Low-level system controller with LCD display and user friendly interface

29650-069
Auto-Aligning Beam Detector 8-50m

29650-070
Additional Detector Head 8-50m

29600-526
Extension Kit 100m

29600-527
Universal Bracket (for use with detector head and prism mounting plates)

29600-528
Surface Mounting Plate for prisms

29600-529
Prism Mounting Plate (4 prisms 100m)

29600-530
Prism Mounting Plate (1 prism 8-50m)

Intelligent Reflective Beam Detector

The Intelligent Reflective Beam Detector differs from a traditional beam detector in that it is a single unit which houses a transmitter, a receiver and the control electronics. The beam detector is available in two versions: a single reflector model for distances of 5-50m and a more powerful four-reflector unit for distances of 50-100m.

- Loop-powered
- Compatible with XP95 and Discovery protocols
- Incorporates a short-circuit isolator
- Automatic drift compensation
- Automatic reset following alarm or fault condition

55000-268
Intelligent Reflective Beam Detector 5-50m

55000-273
Intelligent Reflective Beam Detector 50-100m

Intelligent Auto-Aligning Beam Detector

The high-performance Auto-Aligning Beam Detector comprises of a ground level controller, detector head with auto-aligning feature, integral laser for rapid initial alignment and single prism. An additional detector head can be added to the controller. Auto-Aligning Beam Detector is compatible with XP95 and Discovery, CoreProtocols®.

- Auto-compensates for building movement and contamination
- Compatible with XP95, Discovery protocols and CoreProtocols®
- Integral laser and auto-align enable quicker installation
- Low-level system controller with LCD display and user friendly interface

SA7100-100
Intelligent Auto-Aligning Beam Detector 8-50m

29650-070
Additional Detector Head 8-50m

29600-526
Extension Kit 100m

29600-527
Universal Bracket (for use with detector head and prism mounting plates)

29600-528
Surface Mounting Plate for prisms

29600-529
Prism Mounting Plate (4 prisms 100m)

29600-530
Prism Mounting Plate (1 prism 8-50m)

Conventional End-to-End Optical Beam Detector

This Conventional End-to-End Optical Beam Detector has been designed using the latest optical technology. It is ideal for applications where line of sight for the IR (infra-red) detection path is narrow, and where the building structure uses reflective surfaces.

- Full icon-based, easy-to-use LCD display on the low level controller for ease of commissioning, testing and maintenance
- Aesthetically-pleasing to suit modern architectural buildings and heritage sites
- Range 5 to 120 metres
- Laser-assisted alignment combined with easy-to-use alignment LED's enables installation by one operator
- Separate Fire/Fault Relays per Detector
- Selectable sensitivity/threshold levels
- Automatic Gain Control (AGC) for drift compensation

29600-929
Conventional End-to-End Optical Beam Detector

Reflective Beam Detector Backbox

The Reflective Beam Detector Backbox allows easy first fixing of the cabling and terminations to the Intelligent Reflective Beam Detector (55000-268 & 55000-273). The backbox can be surface or flush mounted.

- Aesthetically pleasing

29600-241
Reflective Beam Detector Backbox

Audio Visual

Apollo offers a wide range of Audio Visual (AV) signalling devices – sounders, visual indicators, sounder visual indicators and sounder visual indicator bases - for use in conjunction with our range of conventional and intelligent detectors.

LPCB VdS CE 0832

AUDIO VISUAL RANGE

Find out more information at:
apollo-fire.co.uk/audio-visual-signalling

Multi-Tone Open-Area Sounder

The Multi-Tone Open-Area Sounder is designed for use in open areas and can be connected to an XP95/Discovery system.

- Updated to include choice of tones: Apollo, Slow Whoop and DIN
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of tones
- Individual and group addressing
- Loop-powered
- Red or white options
- IP21C rated
- EN 54-3 Certified

55000-278
Multi-Tone Open-Area Sounder (red)

55000-279
Multi-Tone Open-Area Sounder (white)

Intelligent Open-Area Sounder

The Intelligent Open-Area Sounder has been designed for use in open areas and can be connected to an XP95/Discovery system.

- Self-test fault monitoring
- Choice of tones on standard device: Apollo, Slow Whoop and DIN
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of tones
- Individual and group addressing
- Built-in isolator
- Red or white options
- Loop-powered
- IP65 rated
- EN 54-3 Certified

55000-001
Intelligent Open-Area Sounder (red)

55000-002
Intelligent Open-Area Sounder (white)

31523-001
Replacement O-Ring

Multi-Tone Weatherproof Open-Area Sounder

The Multi-Tone Weatherproof Open-Area Sounder is designed for use in open areas and can be connected to an XP95/Discovery system. The sounder comprises a backbox and sounder unit supplied together.

- Updated to include choice of tones: Apollo, Slow Whoop and DIN
- IP66 rated
- Synchronisation of tones
- Individual and group addressing
- Non-isolated
- Loop-powered
- Red or white options
- Output 100dB(A)
- EN 54-3 Certified

55000-274
Multi-Tone Weatherproof Open-Area Sounder (red)

55000-275
Multi-Tone Weatherproof Open-Area Sounder (white)

Intelligent Open-Area Visual Indicator

The Intelligent Open-Area Visual Indicator has been developed for use in situations where there is a risk that sounders will not be heard.

- For use on an XP95/Discovery systems
- Self-test fault monitoring
- IP65 rated
- Individual and group addressing
- Synchronisation of flashes
- Comes with isolating base as standard
- Loop-powered
- Red and clear lens options
- Flash rate 1Hz (red)

55000-009
Intelligent Open-Area Visual Indicator (red)

55000-010
Intelligent Open-Area Visual Indicator (clear)

Loop-Powered Visual Indicator

The Loop-Powered Visual Indicator is a local-area visual indicator designed for indoor use. The visual indicator has been developed as a supplement to sounders for use in situations where there is a risk that sounders will not be heard.

- For use on an XP95/Discovery systems
- Self-test indicator
- High intensity LEDs
- Automatic LED check
- Lockable
- Wide angle of visibility
- Enables DDA compliance
- Synchronised flash
- Flash rate 1Hz
- IP23D rated

55000-877
Loop-Powered Visual Indicator (red)

55000-879
Loop-Powered Visual Indicator (amber)

55000-878
Loop-Powered Visual Indicator (clear lens/red flash)

Visual Indicator Enclosure

The Visual Indicator Enclosure is weatherproof and allows Apollo's loop-powered visual indicator to be used in high-moisture environments such as swimming pools and food processing areas where wash-down occurs. The enclosure is supplied with a mounting bracket to accept an XPERT 7 Mounting Base.

- Self-test indicator
- Protects against water ingress
- Allows visual indicator to be used outdoors
- Accepts MiniDisc remote indicator
- IP67 rated
- Flash rate 1Hz (red)

29600-318
Visual Indicator Enclosure

Intelligent Open-Area Sounder Visual Indicator

The Intelligent Open-Area Sounder Visual Indicator is designed for use in open areas and can be connected to an XP95/Discovery system.

- Self-test monitoring
- Choice of tones on standard device: Apollo, Slow Whoop and DIN
- Two volume settings 92dB(A) and 100dB(A)
- Individual and group addressing
- Synchronisation of tones and flashes
- Built-in isolator
- Loop-powered
- IP65 rated
- Red and clear lens options
- Flash rate 1Hz (red)
- EN 54-3 and EN 54-17 Certified

55000-005
Intelligent Open-Area Sounder Visual Indicator (red)

55000-006
Intelligent Open-Area Sounder Visual Indicator (white)

Multi-Tone Open-Area Sounder Visual Indicator

The Multi-Tone Open-Area Sounder Visual Indicator is designed for use in indoor open areas and can be connected to an XP95/Discovery system. The sounder visual indicator complements Apollo's intelligent and integrated base sounders as well as the multi-tone open-area sounder.

- Choice of tones on standard device: Apollo, Slow Whoop and DIN
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Built-in isolator
- IP21C rated
- Flash rate 1Hz (red)
- EN 54-3 and EN 54-17 Certified

55000-293
Multi-Tone Open-Area Sounder Visual Indicator (red)

55000-294
Multi-Tone Open-Area Sounder Visual Indicator (white)

Weatherproof Multi-Tone Open-Area Sounder Visual Indicator

The Weatherproof Multi-Tone Open-Area Sounder Visual Indicator is designed for use in outdoor open areas and can be connected to an XP95/Discovery system. The sounder visual indicator complements Apollo's intelligent and integrated base sounders as well as the multi-tone open-area sounder.

- Choice of tones on standard device: Apollo, Slow Whoop and DIN
- IP66 rated
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Built-in isolator
- Flash rate 1Hz (red)
- EN 54-3 and EN 54-17 Certified

55000-298
Weatherproof Multi-Tone Open-Area Sounder Visual Indicator with Isolator (red)

55000-299
Weatherproof Multi-Tone Open-Area Sounder Visual Indicator with Isolator (white)

Discovery Open-Area Sounder Visual Indicator

The Discovery Open-Area Sounder Visual Indicator makes full use of the Discovery protocol and has been designed for use in indoor and open areas. When the fire system is being commissioned, a 'Magnetic Wand' can be used to adjust and test each sounder locally.

- Acoustic and visual indicator self-test
- 15 tone pairs
- Flexibility to set individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the control panel
- Tones can be used for other purposes in addition to warning of fire, making the device ideal for use in schools etc.
- Soft start option
- IP65 rated
- Flash rate 1Hz (red)
- EN 54-3 Certified

58000-005
Discovery Open-Area Sounder Visual Indicator (red)

58000-007
Discovery Open-Area Sounder Visual Indicator (white)

29650-001
Magnetic Wand

Discovery Open-Area Voice Sounder and Sounder Visual Indicator

The Discovery Open-Area Voice Alarm devices comprise a sounder and a sounder visual indicator that have been designed to provide clear instructional messages through the Discovery protocol. They are loop-powered wall-mounted devices.

- Four pre-set message pairs, capable of up to 15 tone message pairs
- Low-current and high-volume
- Fully synchronised
- Set-up and test at point of installation
- IP21C rated
- Flash rate 1Hz (red)
- EN 54-3 Certified

58000-010
Discovery Open-Area Voice Sounder (red)

58000-020
Discovery Open-Area Voice Sounder (white)

58000-030
Discovery Open-Area Voice Sounder Visual Indicator (red)

58000-040
Discovery Open-Area Voice Sounder Visual Indicator (white)

Sonos Sounder

The Sonos Sounder is a conventional sounder which makes use of the TimeSaver® base resulting in a faster and more reliable installation.

- For use with conventional systems
- A choice of 32 tones including all the major international standards
- Simple 'First Fix' installation
- Volume control - typical 8dB

29600-322
Sonos Sounder head (red)

29600-320
Sonos TimeSaver® Shallow Base

29600-321
Sonos TimeSaver® Deep Base

Sonos Sounder Visual Indicator

The Sonos Sounder Visual Indicator is a conventional sounder visual indicator which makes use of the TimeSaver® base, resulting in a faster and more reliable installation.

- For use with conventional systems
- A choice of 32 tones including all the major international standards
- Simple 'First Fix' installation

29600-323
Sonos Sounder Visual Indicator head (red)

29600-320
Sonos TimeSaver® Shallow Base

29600-321
Sonos TimeSaver® Deep Base

6" Fire Bell

The conventional 6 Fire Bell is a motorised bell designed for fire alarm applications. Its low current consumption and universally recognisable alarm sound makes it an ideal choice for many alarm systems. Designed for ease of installation, it features a robust steel gong.

- Low current consumption
- Universally-recognisable sound

29600-400
6" Fire Bell

Conventional I.S. Sounder and Sounder Visual Indicator

The I.S. Conventional Sounder and Conventional Sounder Visual Indicator are suitable for intrinsically safe signalling applications including fire, security and process control. The Conventional I.S. Sounder is also available for Group I mining.

- ATEX certified
- IECEx certified
- GOST-R certified for Zone 0 applications
- FM certified for Class I Division 1 and Class I Zone 0 applications

29600-379
I.S. Conventional Sounder

29600-446
I.S. Conventional Sounder Visual Indicator

Integrated Base Sounder

The Integrated Base Sounder comprises a base sounder with integral mounting base, and is for use with Discovery or XP95 detectors. It is designed for indoor use.

- For use on an XP95/ Discovery systems
- Two tones
- Two volume ranges 55-75dB(A) and 75-91dB(A)
- Individual and group addressing
- Unique acoustic self-test
- Built-in isolator
- IP21D rated
- EN 54-17 Certified

45681-277
Integrated Base Sounder

45681-290
Integrated Base Sounder slow whoop

45681-300
Integrated Base Sounder DIN-tone

45681-292
Base Cap (white)

45681-293
Base Cap (red)

Ancillary Base Sounder

The Ancillary Base Sounder is a local-area sounder designed for indoor use. It can only be connected to detection systems using Discovery or XP95 detectors and control panels with appropriate software.

- For use on an XP95/ Discovery systems
- Sound output of 85dB(A) at 1 metre
- Current consumption of only 3mA
- Loop-powered
- Responds to signals from the associated detector – does not have an address of its own
- Adjustable volume control
- IP23D rated

45681-276
Ancillary Base Sounder

Series 65 Sounder Base

The Series 65 Sounder Base is a high-efficiency conventional alarm sounder incorporating a base for the Series 65 range of detectors. The sounder base can be secured to a conduit box or surface mounted.

- 32 tones as standard
- Provides detection and alarm signal at one point
- Diode option available

45681-512
Series 65 Sounder Base

45681-513
Series 65 Sounder Base with diode

Loop-Powered Visual Indicator Base

The Visual Indicator Base is a loop-powered visual indicator combined with a standard intelligent mounting base. It is used to signal a fire alarm in enclosed areas.

- For use on an XP95/ Discovery systems
- Flash rate 1Hz (red)
- Synchronisation of visual indicator flash
- Individual and group addressing
- Unique visual indicator self-test
- Loop-powered
- Built-in Isolator
- IP21D rated
- EN 54-17 Certified

45681-333
Loop-powered Visual Indicator Base

45681-292
Base Cap (white)

45681-293
Base Cap (red)

These products can either be used with a detector fitted or a cap as a stand-alone device.

Intelligent Sounder Visual Indicator Base

The Sounder Visual Indicator Base is a loop-powered sounder and visual indicator, combined with a standard intelligent mounting base. It is used to signal a fire alarm in enclosed areas.

- For use on an XP95/Discovery systems
- Two volume ranges 55-75dB(A) and 75-91dB(A)
- Flash rate 1Hz (red)
- Synchronisation of 'alert' and 'evacuate' tones
- Synchronisation of visual indicator flash
- Individual and group addressing
- Unique acoustic and visual indicator self-test
- Built-in isolator
- EN 54-17 Certified

45681-330
Sounder Visual Indicator Base

45681-332
Sounder Visual Indicator Base Slow Whoop

45681-292
Base Cap (white)

45681-293
Base Cap (red)

Discovery Sounder Visual Indicator Base

The Discovery Sounder Visual Indicator Base makes full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- Flash rate 1Hz (red)
- Flexibility to set individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the control panel
- Tones can be used for other purposes in addition to warning of fire, ideal for schools
- Enables soft start option, ideal for hospitals and nursing homes
- Electronic bell tone
- Unique acoustic and visual indicator self-test

45681-393
Discovery Sounder Visual Indicator Base

29650-001
Magnetic Wand

Discovery Sounder Base with Isolator

The Discovery Sounder Base makes the full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- 15 pairs of tones
- Flexibility to set individual volume of the sounder from the panel
- Tones can be used for other purposes in addition to warning of fire, ideal for schools
- Enables soft start option, ideal for hospitals and nursing homes
- Unique acoustic and visual indicator self-test

45681-702
Discovery Sounder Base with Isolator

Non-isolated products

Multi-Tone Open-Area Sounder Visual Indicator (red)*	55000-291
Multi-Tone Open-Area Sounder Visual Indicator (white)*	55000-292
Weatherproof Multi-Tone Open-Area Sounder Visual Indicator (red)*	55000-296
Integrated Base Sounder*	45681-278
Integrated Base Sounder Slow Whoop*	45681-291
Loop-powered Visual Indicator Base with Standard Flash	45681-335
Sounder Visual Indicator Base*	45681-331

*For information about UL sounder visual indicator and bases go to the UL/ULC/FM section on page 143

EN 54-23 Approved Visual Alarm Devices

In the event of a fire, the most effective way to signal an alarm for people who are deaf, hard of hearing or who work in noisy environments is to supplement audible alarms with Visual Alarm Devices (VADs).

EN 54-23 is a new European standard which specifies the light output performance requirements and test criteria for VADs. Apollo has designed and manufactured a new range of devices, which are approved to the new EN 54-23 standard and we are continuing to develop additional approved devices.

EN 54-23 APPROVED VISUAL ALARM DEVICE RANGE

Find out more information at:
apollo-fire.co.uk/vad

LPCB 0832 CE

Discovery Sounder VAD Base with Isolator

The Discovery Sounder VAD Base makes full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder VAD locally.

- EN 54-23 Certified Category O. VAD
- 0.5Hz Flash Rate (white)
- Volume control from the panel
- 15 pairs of tones
- Built-in isolator
- Unique acoustic and VAD self-test
- EN 54-3 Certified Sounder

45681-700
Discovery Sounder
VAD Base with Isolator

XP95 Sounder VAD Base with Isolator

The XP95 Sounder VAD Base is a loop-powered sounder and VAD combined with a standard intelligent mounting base. It is used to signal a fire alarm in enclosed areas.

- EN 54-23 Certified Category O. VAD
- 0.5Hz Flash Rate (white)
- Synchronisation of 'alert' and 'evacuate' tones
- Synchronisation of visual indicator flash
- Individual and group addressing
- Unique acoustic and VAD self-test
- Built-in isolator
- EN 54-3 Certified Sounder

45681-705
XP95 Sounder VAD Base with Isolator

45681-706
XP95 Sounder VAD Base
Slow Whoop with Isolator

45681-707
XP95 Sounder VAD
Base DIN with Isolator

XP95 VAD Base with Isolator

The XP95 VAD Base is a loop-powered VAD combined with a standard intelligent mounting base. It is used to signal a fire alarm in enclosed areas.

- EN 54-23 Certified Category O. VAD
- 0.5Hz Flash Rate (white)
- Synchronisation of VAD flash
- Individual and group addressing
- Unique VAD self-test
- Loop-powered
- Built-in isolator

45681-709
XP95 VAD Base with Isolator

The VAD bases can be used with either a detector fitted or with a cap as a stand-alone alarm device.

Sonos Pulse Wall VAD

Sonos Pulse conventional wall mounted Visual Alarm Devices are available with a white and red flash colour. The white flash variant has an EN 54-23 approved coverage pattern of W-3.1-11.3, whereas the red flash variant has a coverage pattern of W-2.4-7.5.

- EN 54-23 approved
- Flash Colour: Red or White
- Synchronised Flash
- IP65 (deep base)

29600-800
Sonos Pulse Wall VAD,
Deep Base, Red Body,
White Flash (W-3.1-11.3)

29600-801
Sonos Pulse Wall VAD,
Deep Base, Red Body,
Red Flash (W-2.4-7.5)

Sonos Pulse Ceiling VAD

Sonos Pulse conventional ceiling mounted Visual Alarm Devices are available with a white and red flash colour. The white flash variant has an EN 54-23 approved coverage pattern of C-3-15, whereas the red flash variant has a coverage pattern of C-3-8.9.

- EN 54-23 approved
- Flash Colour: Red or White
- Synchronised Flash
- IP21 (shallow base)

29600-802
Sonos Pulse Ceiling VAD,
Shallow Base, White Body,
White Flash (C-3-15)

29600-803
Sonos Pulse Ceiling VAD,
Shallow Base, White Body,
Red Flash (C-3-8.9)

Sonos Pulse Wall Sounder VAD

Sonos Pulse conventional wall mounted Sounder Visual Alarm Devices are available with a white and red flash colour. The white flash variant has an EN 54-23 approved coverage pattern of W-3.1-11.3, whereas the red flash variant has a coverage pattern of W-2.4-7.5. The sounder has an a SPL of up to 97dB.

- EN 54-23 approved
- Flash Colour: Red or White
- Synchronised Flash
- IP21 (shallow base) or IP65 (deep base)

29600-804
Sonos Pulse Wall Sounder VAD,
Shallow Base, Red Body,
White Flash (W-3.1-11.3)

29600-805
Sonos Pulse Wall Sounder VAD,
Shallow Base, Red Body,
Red Flash (W-2.4-7.5)

29600-806
Sonos Pulse Wall Sounder VAD,
Deep Base, Red Body,
White Flash (W-3.1-11.3)

29600-807
Sonos Pulse Wall Sounder VAD,
Deep Base, Red Body,
Red Flash (W-2.4-7.5)

Category C Loop Powered VAD

The Loop Powered VAD is designed for indoor use. The Category C VAD is specifically designed for use on a ceiling and comes in two different coverage classes. The two EN 54-23 coverage classes are C-3-8.5 and C-3 15. These devices are to supplement sounders in areas which carry the risk that sounders will not be heard.

- EN 54-23 approved
- High-intensity LED
- Lockable
- Available in red and white body
- White flash only

55000-740
Loop Powered VAD 15m (red)

55000-742
Loop Powered VAD 8.5m (red)

55000-743
Loop Powered VAD 15m (white)

55000-745
Loop Powered VAD 8.5m (white)

Category W Loop Powered VAD

The Loop Powered VAD is designed for indoor use. The Category W VAD is specifically designed for use on the wall. The EN 54-23 coverage class for this device is W-2.5-7. These devices are to supplement sounders in areas which carry the risk that sounders will not be heard.

- EN 54-23 approved
- High-intensity LED
- Lockable
- Available in red and white body
- White flash only

55000-741
Loop Powered VAD 7m (red)

55000-744
Loop Powered VAD 7m (white)

Interfaces

Apollo manufactures a comprehensive range of interfaces for systems which enable fire protection solutions to be engineered simply and effectively without the need for custom-designed equipment. There are a variety of interfaces available to suit a number of individual applications.

Interfaces Range			
	Standard Enclosure	DIN-Rail Enclosure	Miniature Enclosure
Mini Switch Monitor		●	●
Switch Monitor	●	●	
Switch Monitor Plus	●	●	
Zone Monitor	●	●	
Sounder Control Unit	●		
Input/Output Unit	●	●	
Output Unit	●	●	
Sounder Controller (5 Amperes)		●	
Dual Isolator		●	
3 Channel Input/Output Unit*	●		
Main Switching Input/Output Unit	●	●	

* Enclosure specific to 3 Channel Input/Output Unit

INTERFACE RANGE

Find out more information at:
apollo-fire.co.uk/interfaces

Standard Interfaces

Standard interfaces are fitted with bi-directional short-circuit isolators so that they are unaffected by a single short-circuit on either loop input or output. The exception to this is the Mains Input/Output Unit, which is not isolated.

KEY FEATURES OF APOLLO INTERFACES:

- Easy to install
- Well-protected
- Modular design

STANDARD INTERFACE RANGE

Find out more information at:
apollo-fire.co.uk/interfaces

interfaces
FOR INTELLIGENT SYSTEMS

Input/Output Unit

The Input/Output Unit provides a voltage-free, double pole changeover (DPCO) relay output, a single monitored switch input and an unmonitored, non-polarised opto-coupled input.

- Three visible LEDs
- Loop-powered
- Capable of switching up to 30V at 1A
- Built-in isolator

55000-847
Input/Output Unit

Three Channel Input/Output Unit

The Three Channel Input/Output Unit provides three voltage-free, single pole, changeover relay outputs and three monitored switch inputs.

- Supervises one or more normally open switches on each of the three inputs
- Loop-powered
- Capable of switching up to 30V at 1A on each of the three outputs
- Built-in isolator

55000-588
Three Channel Input/Output Unit

Output Unit

The Output Unit provides a voltage-free single pole, changeover relay output. It is a simplified version of the Input/Output Unit without circuitry for monitoring inputs.

- Capable of switching up to 30V at 1A
- Built-in isolator

55000-849
Output Unit

Sounder Control Unit

The Sounder Control Unit is used to control the operation of a zone of conventional sounders and report their status' to the control panel.

- Allows sounders to be operated continuously or be pulsed, 1 second on, 1 second off
- May be synchronised with loop sounders
- Built-in isolator

55000-852
Sounder Control Unit

Switch Monitor

The Switch Monitor is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report their status' to Apollo-compatible analogue control equipment.

- Four input states – 'normal', 'fault', 'pre-alarm' and 'alarm'
- Two visible LEDs
- Loop-powered
- Built-in isolator

55000-843
Switch Monitor

Switch Monitor Plus

The Switch Monitor Plus is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report their status' to Apollo-compatible analogue control equipment.

- Output for resetting a remote detector
- Four input states – 'normal', 'fault', 'pre-alarm' and 'alarm'
- Two visible LEDs
- Selectable alarm delay for monitoring flow switches
- Built-in isolator

55000-841
Switch Monitor Plus

Zone Monitor

The Zone Monitor powers and controls a zone of up to 20 Apollo Series 65 or Orbis fire detectors from a Discovery or XP95 loop.

- Loop-powered
- LED alarm indication
- Built-in isolator

55000-845
Zone Monitor

Mains Switching Input/Output Unit

The Mains Switching Input/Output Unit provides a voltage-free, single pole changeover relay output and a monitored switch input.

- Supervises one or more normally-open switches connected to a single pair of cables
- Three visible LEDs
- Capable of switching 250V AC at up to 5A

55000-875
Mains Switching Input/Output Unit*

Locally Powered Zone Monitor

The Locally Powered Zone Monitor Powers and controls a zone Apollo Series 65 or Orbis detectors from a Discovery or XP95 loop.

- Supplied with a polycarbonate back box for surface mounting
- Built-in isolator

55000-864
Locally Powered Zone Monitor

Standard Interfaces Comparison Table

With the exception of the Mains Switching Input/Output Unit, Apollo's range of standard interfaces without isolators has been discontinued.

The discontinued part numbers are listed to the right, along with the comparable interfaces with isolators, which are now available.

	Discontinued part number	Alternative part number
Input/Output Unit	55000-818	55000-847
3 Channel Input/Output Unit	55000-589	55000-588
Output Unit	55000-819	55000-849
Sounder Control Unit	55000-823	55000-852
Switch Monitor	55000-810	55000-843
Switch Monitor Plus	55000-809	55000-841
Zone Monitor	55000-813	55000-845

* Not isolated.

DIN-Rail Interfaces

DIN-Rail interfaces feature enclosures that clip to a standard 35mm DIN-Rail or are screwed to the base of a larger enclosure. They enable fire system designers to create multi-purpose interfaces for individual sites.

DIN-RAIL INTERFACE RANGE

Find out more information at:
apollo-fire.co.uk/interfaces

LPCB
CE 0832

DIN-Rail Input/Output Unit

The DIN-Rail Input/Output Unit provides a voltage-free and single pole changeover relay output, a single,monitored switch input and an unmonitored, non-polarised opto-coupled input.

- Three visible LEDs
- Loop-powered
- Capable of switching up to 30V at 1A

55000-803
DIN-Rail Input/Output Unit

DIN-Rail Output Unit

The DIN-Rail Output Unit provides a voltage-free single pole, changeover relay output. It is a simplified version of the Input/Output Unit without circuitry for monitoring inputs.

- Capable of switching up to 30V at 1A
- Loop-powered

55000-804
DIN-Rail Output Unit

DIN-Rail Mains Input/ Output Unit

The DIN-Rail Mains Input/ Output Unit provides a voltage-free, single pole changeover relay output and a monitored switch input. The unit supervises one or more normally-open switches connected to a single pair of cables.

- Three visible LEDs
- Capable of switching up to 8A at 250V AC

55000-797
DIN-Rail Mains Input/Output Unit

DIN-Rail Dual Isolator

The DIN-Rail Dual Isolator provides two independent isolators which sense and isolate short-circuits on Discovery or XP95 loops and spurs.

- Loop-powered
- Polarity sensitive
- Up to 20 detectors can be installed between isolators
- Allows fully-isolated spurs

55000-802
DIN-Rail Dual Isolator

DIN-Rail Switch Monitor

The DIN-Rail Switch Monitor is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report this status to Apollo-compatible analogue addressable control equipment.

- Four input states – 'normal', 'fault', 'pre-alarm' and 'alarm'
- Two visible LEDs
- Loop-powered

55000-822
DIN-Rail Switch Monitor

DIN-Rail Switch Monitor Plus

The DIN-Rail Switch Monitor Plus is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report this status to Apollo-compatible analogue addressable control equipment.

- Output for resetting a remote detector
- Four input states - 'normal', 'fault', 'pre-alarm' and 'alarm'
- Two visible LEDs
- Loop-powered
- Selectable alarm delay for monitoring flow switches

55000-821
DIN-Rail Switch Monitor Plus

DIN-Rail Sounder Controller (5 Amperes)

The DIN-Rail Sounder Controller (5 Amperes) is used to control the operation of a zone of externally powered sounders and report their status to the control panel.

- Allows sounders to be operated continuously or be pulsed, one second on, one second off
- May be synchronised with loop sounders
- An opto-coupled input is provided to monitor the state of the external power supply
- Features group addressing
- Will accept a load of up to 5A

55000-182
DIN-Rail Sounder Controller (5 Amperes)

DIN-Rail Zone Monitor with Isolator

The DIN-Rail Zone Monitor with Isolator powers and controls a zone of up to 20 Apollo Series 65 or Orbis fire detectors in a Discovery or XP95 loop.

- Loop-powered
- Visible short-circuit and alarm LEDs
- Built-in Isolator

55000-812
DIN-Rail Zone Monitor with Isolator

DIN-Rail Interface Enclosures

DIN-Rail Interface Enclosures are available in two sizes and can be used for housing intrinsically safe (I.S.) barriers or DIN-Rail mounted interfaces. A multi-purpose label that features a section for use with I.S. systems is supplied. For non-I.S. systems, the part referring to I.S. can simply be removed.

- Allows multiple interfaces to be housed together
- IP67 rated

29600-239
DIN-Rail Interface Enclosure (4 units)

29600-240
DIN-Rail Interface Enclosure (10 units)

Mini Switch Monitor

The Mini Switch Monitor is an interface within an entirely new housing. This allows the unit to be fitted onto a standard 35mm DIN-Rail (using a twist-click motion) or mounted within an enclosure for example, a manual call point. It is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report this status to Apollo-compatible analogue addressable control equipment.

- Designed for use where space is limited
- Isolated as standard
- Interrupt/non interrupt in one unit
- 'Pre-alarm' status available
- Three coloured LEDs giving clear status indication

55000-760
Mini Switch Monitor

Apollo Manufactured Manual Call Points

Apollo's Manufactured Manual Call Points comply with European Standard EN 54-11 and have been designed to make installation and testing quick, easy and cost effective.

Our extensive collection of Manual Call Points complements the variety of products available in our product ranges. As standard, every Manual Call Point is available with a resettable element, front LED indicator and a backbox for surface mounting.

'PLUG AND PLAY'

'Plug and Play' terminal connections allow for fast, easy and cost effective installation in a variety of environments where time and access may be critical.

SPECIALIST ENVIRONMENTS

Details such as a selection of differently coloured call points, flashing LED option and a resettable element for fast testing and resetting of the device mean that Apollo's Manual Call Points are suited to a number of specialist environments.

APOLLO MANUFACTURED MANUAL CALL POINT RANGE

Find out more information at:
apollo-fire.co.uk/mcp

LPCB 0832 CE 0359

DISCOVERY®

XP95®

KEY FEATURES OF APOLLO'S MANUAL CALL POINTS INCLUDE:

- Flashing LED option to indicate polling (Discovery systems only)
- Easy access, front reset mechanism
- Front-facing addressing
- E-Z Fit connectors
- Ergonomically-designed key-shape
- EN 54-11 approved (red only)
- Continuity link
- Highly visible alarm
- Backward compatibility and retro-fit
- Flush-mount and back-box installs
- Reports an activation in under 0.2 seconds
- Resettable element
- Anti-tamper front face
- Captive screws on all waterproof versions

Intelligent Manual Call Point

The Apollo range of Intelligent Manual Call Points has been designed to comply with European standard EN 54-11. In addition, the call points include a number of features designed to make installation and testing quick, easy and cost effective. They can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable operating element
- Easy access, front reset mechanism
- E-Z fit connector system for installation
- EN 54-11 & EN 54-17 Certified
- Front-facing LED
- Continuity link for cable insulation testing
- Suitable for Semi-flush or surface mounting

SA5900-908
Intelligent Manual Call Point

Intelligent Manual Call Point (Non-Standard)

Apollo Intelligent Manual Call Points (Non-Standard) are intended for indoor applications and are available in a variety of different colours for different applications such as initiating a hazard rather than a fire alarm. They can be used on XP95, Discovery and CoreProtocol® systems.

- Resettable element for testing
- Easy access, front reset mechanism
- Variety of colours for different applications

Intelligent Manual Call Point (Non-Standard):

SA5900-903 White †
SA5900-904 Yellow †
SA5900-905 Blue †
SA5900-906 Green †
SA5900-907 Orange †

Apollo Waterproof Manual Call Point

The Apollo Waterproof Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. The manual call point interrupts the polling cycle for a fast response, when activated. A combined LED indicator and front reset mechanism allows for a simple reset.

- EN 54-11 approved (EN 54-17 approved for Isolator version)
- A unique, ergonomically designed key for resetting and front cover removal
- Captive screws

58200-950
Apollo Waterproof Manual Call Point

58200-951
Apollo Waterproof Manual Call Point with Isolator

58200-953
Apollo Waterproof Manual Call Point with Isolator (yellow) †

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

Dual Switch Manual Call Point

The Dual Switch Manual Call Point provides volt free, double pole change-over contacts suitable for normally open or normally closed multiple switching from a single activation point. A device is activated by pressing the resettable element. An activation status is indicated through the rotation of the resettable element, displaying yellow and black indication bars. The manual call point can be easily reset from the front using the supplied reset key.

- Resettable operating element
- Easy access, front reset mechanism
- Ergonomic reset key
- Double pole change-over contacts
- Suitable for semi-flush or surface mounting
- Optional transparent hinged cover

SA5900-011
Dual Switch
Manual Call Point

AlarmSense Manual Call Point

The AlarmSense Manual Call Point has been specifically designed to operate solely with Apollo's Two-Wire range. The Manual Call Point has a highly visible alarm indicator which is combined with the front reset mechanism allowing a quick and simple reset. The LED can be seen from up to 10 metres away.

- Resettable operating element
- Easy access, front resent mechanism
- Ergonomic reset key
- EN 54-11 Certified
- Front-facing LED
- Suitable for Semi-flush or surface mounting

55400-894
AlarmSense
Manual Call Point

Intelligent Marine Manual Call Point

Intelligent Marine Manual Call Points have been approved to EN 54-11 and the Marine Equipment Directive 96/98/EC.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomically designed
- Key for resetting and front cover removal

SA5900-928MAR
Intelligent Marine
Manual Call Point

Apollo Discovery Marine Waterproof Manual Call Point

Discovery Marine Waterproof Manual Call Points have been approved to EN 54-11 and the Marine Equipment Directive 96/98/EC.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomically designed key for resetting and front cover removal

58200-975MAR
Apollo Discovery
Marine Waterproof
Manual Call Point

58200-976MAR
Apollo Discovery Marine
Waterproof Manual
Call Point with Isolator

Apollo XP95 I.S. Manual Call Point

The Apollo XP95 I.S. Manual Call Point has been designed to be used in atmospheres in which explosive mixtures may be present. The device is rated to be used in Zones 2, 1 & 0.

Resettable element for testing

Easy access, front reset mechanism

A unique, ergonomically designed key for resetting and front cover removal

55200-940
Apollo XP95 I.S. Manual Call Point

Apollo Transparent Hinged Cover

The Apollo Transparent Hinged Cover has been designed to fit all Apollo Manufactured Manual Call Points to provide protection against accidental operation.

Reduces risk of malicious activations

44251-175
Pack of 10 Transparent Hinged Cover

44251-189
Single Transparent Hinged Cover

Manual Call Point Reset Key

Manual Call Point Reset Keys can be used for the reset and removal of all Apollo manufactured Manual Call Points.

Ergonomically designed

44251-176
Pack of 10 Manual Call Point Reset Keys

Manual Call Points

KEY FEATURES OF APOLLO'S MCPS INCLUDE:

- Resettable element for fast testing and resetting of the device
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before call points are commissioned
- Supplied with back box for surface mounting
- Optional transparent cover to prevent accidental operation

MANUAL CALL POINT RANGE

Find out more information at:
apollo-fire.co.uk/mcp

LPCB 0832 CE

Discovery Manual Call Point

A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- Flashing LED option to indicate polling (Discovery systems only)
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-910
Discovery Manual Call Point

58100-908
Discovery Manual Call Point with Isolator

XP95 Manual Call Point

A seven-segment DIL switch enables the addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

55100-905
XP95 Manual Call Point

55100-908
XP95 Manual Call Point with Isolator

Waterproof Manual Call Point

The Waterproof Manual Call Point has been designed for use outdoors and in places where moisture can occur. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-950
Waterproof Manual Call Point

58100-951
Waterproof Manual Call Point with Isolator

58100-953
Waterproof Manual Call Point with Isolator (yellow) †

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

Discovery Manual Call Point (Non-Standard)

Apollo offers a selection of differently coloured call points suitable for a variety of applications such as initiating a hazard rather than a fire alarm. They can be used on XP95 and Discovery systems.

- Flashing LED option to indicate polling (Discovery systems only)
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an activation in under 0.2 seconds
- Resettable element

Discovery Manual Call Point (Non-Standard):

58100-926 White †

58100-927 Yellow †

58100-928 Blue †

58100-929 Green †

58100-930 Orange †

Conventional Manual Call Point

Apollo's Conventional Manual Call Points comply with EN 54-11 and are available in both indoor and outdoor variants. Apollo also offers a yellow variant suitable for alternative applications.

- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-001
Conventional Manual Call Point without LED

55100-002
Conventional Call Point without LED (Non-Standard) yellow †

55100-003
Conventional Waterproof Manual Call Point without LED

55100-004
Conventional Waterproof Call Point without LED (Non-Standard) yellow †

AlarmSense Manual Call Point

The AlarmSense Manual Call Point is different from other conventional call points in that it can be detected as an operated call point rather than a detector that has changed to the alarm state.

- Red LED indicator
- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-894
AlarmSense Manual Call Point

† Non-standard variants of the Manual Call Point are not EN 54-11 compliant and therefore cannot be used to signal fire.

XPander Manual Call Point

The XPander Manual Call Point is wireless and is powered by two independent packs of three AA batteries with a typical five-year life.

- Wireless
- XPERT addressing
- LED to indicate operation
- Fast response, reports alarm in under one second

XPA-MC-14006-APO
XPander
Manual Call Point

Discovery Marine Manual Call Point

The Discovery Marine Manual Call Point has been approved for use in indoor marine applications. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- Flashing LED option to indicate polling (Discovery systems only)
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-970MAR
Discovery Marine
Manual Call Point

58100-971MAR
Discovery Marine Manual
Call Point with Isolator

Discovery Marine Waterproof Manual Call Point

The Discovery Marine Manual Call Point has been approved for use in outdoor marine applications. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-975MAR
Discovery Marine
Waterproof Manual
Call Point

58100-976MAR
Discovery Marine
Waterproof Manual
Call Point with Isolator

Conventional Marine Manual Call Point

The Conventional Marine Manual Call Point has been designed to operate on conventional marine fire detection systems. It is compliant with EN 54-11 and Marine Equipment Directive 96/98/EC and is available in both indoor and outdoor variants.

- Red LED indicator
- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-021MAR
Conventional Marine
Manual Call Point

55100-022MAR
Conventional Marine
Waterproof Manual
Call Point

XP95 I.S. Manual Call Point

The XP95 I.S. Manual Call Point is based on the standard waterproof model. It has been designed to operate on XP95 Intrinsically Safe fire detection systems, specifically atmospheres where explosive mixtures are, or may be, present.

- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

55100-940
XP95 I.S.
Manual Call Point

55100-942
XP95 I.S.
Manual Call Point
(Non-Standard) yellow

XP95 I.S. Manual Call Point – MEDC Style

The XP95 Manual Call Point MEDC style is recommended for heavy duty applications. This model is made of glass-reinforced polyester and is available as break-glass or push-button style.

- Robust design
- Waterproof
- Reports an alarm in under 0.2 seconds

Break-glass:

55000-960
Red

55000-962
Yellow

55000-964
Blue

55000-966
Black/yellow stripes

Break-glass with flap:

55000-961
Red

55000-963
Yellow

55000-965
Blue

55000-967
Black/yellow stripes

Conventional I.S. Manual Call Point

The Conventional I.S. Manual Call Point has been designed to operate on conventional Intrinsically Safe fire detection systems. Designed specifically for use in atmospheres in which explosive mixtures are or may be present.

- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-031
Conventional I.S.
Manual Call Point

55100-033
Conventional I.S.
Waterproof
Manual Call Point

Transparent Hinged Cover

The Transparent Hinged Cover can be fitted to all call points excluding MEDC style to add further protection against accidental operation.

- Breakable cover seal
- Reduces risk of malicious activations

26729-152
Transparent
Hinged Cover

26729-179
Breakable Cover Seal

Mounting Accessories

Apollo offers a selection of accessories that can be used when installing our detectors, sounders and interfaces. These include backplates providing a high degree of protection from dust or water ingress, weatherproof visual indicator enclosures for installations outside and in high-moisture environments such as swimming pools, and ceiling tile mounting boxes which make installation easy prior to the fitting of a false ceiling.

MOUNTING ACCESSORIES RANGE

Find out more information at:
apollo-fire.co.uk/accessories

Backplate

The Backplate provides a high degree of protection against the ingress of water or dust into the back of a detector mounted directly onto a mounting box. When the backplate is used with an XP95 device, the number tab of the XPERT card must be snapped off and placed in one of the knockout slots provided in the backplate.

- Protects against dust and dirt ingress
- Improved performance
- Fits Discovery, XP95, Orbis, Series 65 and AlarmSense bases

45681-233
Backplate

Base Cover

Base Covers are available as part of the Series 65 and XP95 ranges.

- Protects base when detector not in place
- Aesthetically pleasing

45681-370
Series 65 Base Cover

45681-380
XP95 Base Cover

Conduit Box

The Conduit Box is a versatile accessory for surface mounting Apollo bases. The box has knockouts to accept PG16 or M20 cable glands, conduit or mini-trunking. Self-tapping screws are included to fit the detector base to the conduit box.

- Easy to install
- Aesthetically pleasing
- Colour matched to detector and base

45681-204
Conduit Box

Sounder Ceiling Plate

The Sounder Ceiling Plate allows surface-mounted cabling to be fitted to a loop-powered sounder base.

- Ease of installation

45681-311
Sounder Ceiling Plate

Module Base

The Module Base is an accessory which can be secured to a standard base, allowing customers to fit their own electronics.

5mm in depth

38531-822
Module Base

Deckhead Mounting Box

The Deckhead Mounting Box gives extra protection to devices to be fitted in areas where there is the possibility of moisture or condensation ingressing through the rear of the base.

Protects against water ingress

Polycarbonate deckhead mounting box (45681-217) also fits Apollo audio visual bases when used with the accessory kit (45681-218)

45681-217
Deckhead Mounting Box

29600-131
Metal Deckhead Mounting Box (has access ports threaded to fit PG16 glands)

45681-218
Deckhead Mounting Box Accessory Kit

29600-139
Metal Deckhead Mounting Box (has access ports threaded to fit M20 components)

27249-005
Deckhead Adaptor (for use with 29600-196 converts cable glands from PG16 to M20)

31523-857
O'Ring

Ceiling Tile Mounting Box

The Ceiling Tile Mounting Box has been designed to make the installation of detectors and sounders quick and easy prior to the fitting of a false ceiling. Detector and sounder bases can be fitted, wired and if necessary, tested and commissioned before the installation of a false ceiling.

No need for separate backbox

Can be used with tiles up to 25mm thick

Quick and easy installation

45681-309
Detector Ceiling Tile Mounting Box

45681-310
Sounder Ceiling Tile Mounting Box

6" Mounting Plate

The 6 Mounting Plate is an accessory that allows sounder bases to be surface mounted.

Can be surface mounted

Aesthetically pleasing

Disguises any blemishes or marks left beneath

45681-600
6" Mounting Plate

Visual Indicator Enclosure

The Visual Indicator Enclosure is weatherproof, allowing a loop-powered visual indicator to be installed outside and in high moisture environments such as swimming pools. The enclosure is supplied with a mounting bracket to accept an XPERT 7 Mounting Base.

- Protects against water ingress
- Allows visual indicators to be used outdoors
- Accepts MiniDisc remote indicator
- IP67 rated

29600-318
Visual Indicator Enclosure

DIN-Rail Interface Enclosures

DIN-Rail Interface Enclosures are available in two sizes and can be used for housing Intrinsically Safe (I.S.) barriers or DIN-Rail mounted interfaces. A multi-purpose label that features a section for use with I.S. systems is supplied. For non-I.S. systems, the part referring to I.S. can simply be removed.

- Allows multiple interfaces to be housed together
- IP67 rated

29600-239
DIN-Rail Interface Enclosure (4 units)

29600-240
DIN-Rail Interface Enclosure (10 units)

Series 90 to XP95 Base Adaptor

The Series 90 to XP95 Base Adaptor is designed to allow XP95 detectors to be fitted to an existing Series 90 base. The adaptor eliminates the need to rewire an existing Apollo intelligent system.

- Allows an existing range to be updated with ease
- Eliminates the need for re-wiring

45681-238
Series 90 to XP95 Base Adaptor

Series 65 to Orbis Base Adaptor

The Series 65 to Orbis Base Adaptor is designed to allow Orbis detectors to be fitted to an existing Series 60 or Series 65 base. The adaptor eliminates the need to rewire an existing Apollo conventional system.

- Allows an existing range to be updated with ease
- Eliminates the need for re-wiring

ORB-BA-10008-APO
Series 65 to Orbis Base Adaptor

Marine

Apollo offers both analogue addressable and conventional ranges of smoke and heat detectors which are approved for use in the marine environment. These detectors operate in the same way and carry the same approvals as standard detectors, but are subject to additional approvals tests, specific to the marine environment.

MARINE RANGE

Find out more information at:
apollo-fire.co.uk/marine

THE MARINE DETECTORS COMPLY WITH MED AND ARE APPROVED BY THE FOLLOWING BODIES:

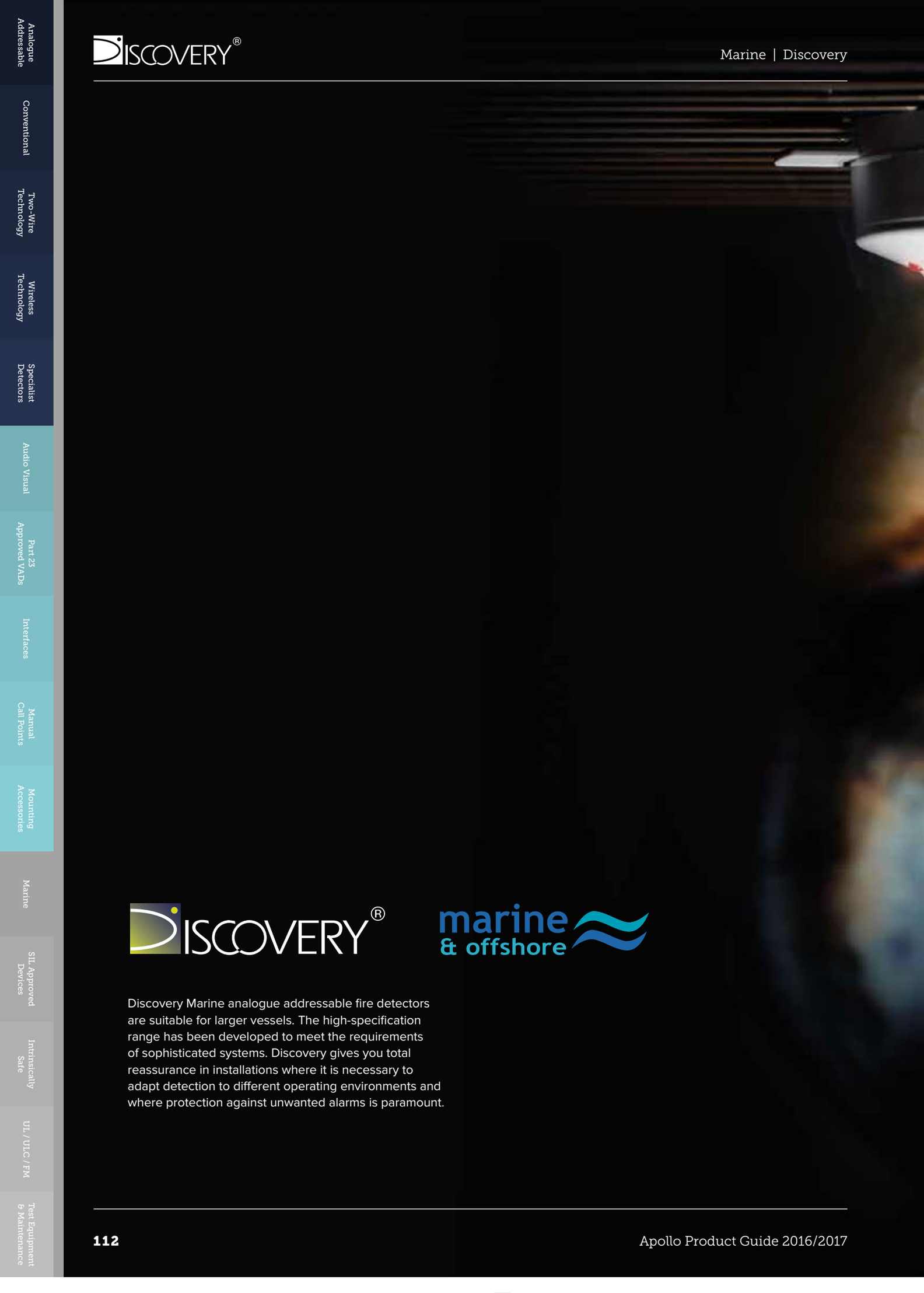
- American Bureau of Shipping
- Bureau Veritas
- China Classification Society
- Det Norske Veritas
- Germanischer Lloyd
- Lloyd's Register of Shipping
- Maritime and Coastguard Agency
- Marine Marchande Française

PASSENGER SHIPS & FERRIES

Around 200 Apollo intelligent detectors protect the Liao Hai roll-on-roll-off ferry in China.

CARGO & MILITARY VESSELS

The largest lifting vessel in Asia is protected using an Apollo-based fire detection system of over 400 Discovery Marine devices.



DISCOVERY®

marine & offshore

Discovery Marine analogue addressable fire detectors are suitable for larger vessels. The high-specification range has been developed to meet the requirements of sophisticated systems. Discovery gives you total reassurance in installations where it is necessary to adapt detection to different operating environments and where protection against unwanted alarms is paramount.

DISCOVERY
MARINE RANGE

Find out more information at:
apollo-fire.co.uk/marine

KEY FEATURES OF DISCOVERY MARINE INCLUDE:

- Approved for use in the marine environment
- Five approved response modes for environmental adaptation
- Day/night switching for increased flexibility
- Drift compensation for false alarm reduction
- User programmability for data retention
- XPERT 7 Card addressing for increased security

Discovery Marine Optical Smoke Detector

The Discovery Marine Optical Smoke Detector operates using the light scatter principle and is ideal for applications where slow-burning or smouldering fires pose a potential risk.

- Responds well to slow-burning, smouldering fires
- Suitable for bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Remote test feature
- Rejection of transient signals

58000-600MAR
Discovery Marine Optical Smoke Detector

Discovery Marine Multisensor Detector

The Discovery Marine Multisensor Detector comprises optical smoke and thermistor temperature sensors which give both a combined signal as well as a separate heat signal for improved false alarm management.

- Ideal for a wide range of applications
- High immunity to false alarms
- Unaffected by wind or atmospheric pressure
- Remote test feature
- Rejection of transient signals

58000-700MAR
Discovery Marine Multisensor Detector

Discovery Marine Ionisation Smoke Detector

The Discovery Marine Ionisation Smoke Detector uses a low-activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Remote test feature
- Rejection of transient signals

58000-500MAR
Discovery Marine Ionisation Smoke Detector

Discovery Marine Heat Detector

The Discovery Marine Heat Detector, distinguishable by the low airflow resistant case, uses a single thermistor to sense the air temperature around the detector.

- Ideal in environments that are dirty or smoky
- Unaffected by wind or atmospheric pressure
- Remote test feature

58000-400MAR
Discovery Marine Heat Detector

Discovery Marine Mounting Base

All detectors in the Discovery Marine range are for use with the Marine Mounting Base. The mounting base is a low insertion force base with stainless steel contacts for the detector terminals. XPERT 7 Cards are supplied with all Discovery bases.

- XPERT 7 Card addressing
- One-way fit
- Locking feature to prevent unauthorised removal

45681-210MAR
Discovery Marine Mounting Base

Marine Isolating Base

The Marine Isolating Base senses and detects short-circuit faults on Discovery loops and spurs.

- Up to 20 detectors or their equivalent load, may be installed between isolating bases
- High-brightness LED
- Detects wiring short-circuits
- Minimises disruption from short-circuits

45681-286
Marine Isolating Base

Discovery Marine Sounder Visual Indicator Base

The Discovery Marine Sounder Visual Indicator Base makes full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- It is possible to set individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the control panel
- Electronic bell tone
- IMO 1A tone included

45681-394MAR
Discovery Marine Sounder Visual Indicator Base

29650-001
Magnetic Wand

Discovery Marine Isolator

The Discovery Marine Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

- Detects wiring short-circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors or equivalent load may be installed between isolators

55000-721MAR
Discovery Marine Isolator (uses 45681-211MAR Isolator Base)

45681-211MAR
Discovery Marine Isolator Base

Deckhead Mounting Box

The Deckhead Mounting Box gives extra protection to devices fitted in areas where there is the possibility of moisture or condensation ingressing through the rear of the base.

Protects against water ingress

Polycarbonate deckhead mounting box (45681-217) also fits Apollo audio visual bases when used with the accessory kit (45681-218)

45681-217
Deckhead Mounting Box

29600-131
Metal Deckhead Mounting Box (has access ports threaded to fit PG16 glands)

45681-218
Deckhead Mounting Box Accessory Kit

29600-139
Metal Deckhead Mounting Box (has access ports threaded to fit M20 components)

27249-005
Deckhead Adaptor (for use with 29600-196 – converts cable glands from PG16 to M20)

31523-857
O'Ring

Marine DIN-Rail Dual Isolator

The Marine DIN-Rail Dual Isolator provides two independent isolators which sense and isolate short-circuits on loops and spurs.

Loop-powered

Up to 20 detectors can be installed between isolators

Allows fully isolated spurs

55000-770MAR
Marine DIN-Rail Dual Isolator

Marine DIN-Rail Sounder Controller (8 Amperes)

The Marine DIN-Rail Sounder Controller (8 Amperes) is used to control the operation of a zone of externally powered sounders and report their status to the control panel.

Allows sounders to be operated continuously or be pulsed, one second on, one second off

May be synchronised when in pulsed operation

External supply monitoring

Will accept a load of 8A

55000-181MAR
Marine DIN-Rail Sounder Controller (8 Amperes)

Marine DIN-Rail Switch Monitor Plus

The Marine DIN-Rail Switch Monitor Plus is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report the status to Apollo-compatible analogue addressable control equipment.

Four input states – 'normal', 'fault', 'pre-alarm', and 'alarm'

Loop-powered

Optional 30 second alarm delay for monitoring flow switches

55000-772MAR
Marine DIN-Rail Switch Monitor Plus

Marine DIN-Rail Zone Monitor

The Marine DIN-Rail Zone Monitor with isolator controls the operation of a zone of up to 20 Apollo Orbis Marine fire detectors in a loop.

- Loop-powered
- Visible short-circuit LED
- Built-in isolator

55000-773MAR
Marine DIN-Rail
Zone Monitor

Marine DIN-Rail Output Unit

The Marine DIN-Rail Output Unit provides a voltage-free single pole, changeover relay output.

- Capable of switching up to 30V at 1A

55000-771MAR
Marine DIN-Rail
Output Unit

Marine DIN-Rail Input/Output Unit

The Marine DIN-Rail Input/Output Unit provides a voltage-free, single pole, changeover relay output, a single, monitored switch input and an unmonitored, non-polarised opto-coupled input.

- It can report fault, switch open and switch closed levels
- Three visible LEDs
- Capable of switching up to 8A at 250V AC
- Fits a standard 35mm DIN-Rail

55000-774MAR
Marine DIN-Rail
Input/Output Unit

Marine Mini Switch Monitor

The Marine Mini Switch Monitor is an interface within an entirely new housing. Designed in response to customer feedback, the smaller Mini Switch Monitor can be fitted onto a 35mm DIN-Rail with a twist-click motion or mounted in an enclosure such as a manual call point. It is designed to monitor the state of one or more single pole, volt-free contacts connected to a single pair of cables and to report this status to Apollo-compatible control equipment.

- Designed for use where space is limited
- Isolated as standard
- Interrupt/non interrupt in one unit
- 'Pre-alarm' status available
- Three coloured LEDs giving clear status indication

55000-775MAR
Marine Mini
Switch Monitor

Intelligent Marine Manual Call Point

Intelligent Marine Manual Call Points have been approved to EN 54-11 and the Marine Equipment Directive 96/98/EC.

Resettable element for testing

Easy access, front reset mechanism

A unique, ergonomically designed key for resetting and front cover removal

SA5900-928MAR
Intelligent Marine Manual Call Point

Apollo Discovery Marine Waterproof Manual Call Point

Discovery Marine Waterproof Manual Call Points have been approved to EN 54-11 and the Marine Equipment Directive 96/98/EC. The Marine Manual Call Points boasts a IP67 rating to meet the demands of marine and offshore environments.

Resettable element for testing

Easy access, front reset mechanism

A unique, ergonomically designed key for resetting

58200-975MAR
Apollo Discovery Marine Waterproof Manual Call Point

58200-976MAR
Apollo Discovery Marine Waterproof Manual Call Point with Isolator

Discovery Marine Manual Call Point

The Discovery Marine Manual Call Point has been approved for use in indoor marine applications. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

Flashing LED option to indicate polling (Discovery systems only)

'Plug and Play' terminal connections for fast wiring

Continuity link for wiring test before commissioning

Reports an alarm in under 0.2 seconds

Resettable element

58100-970MAR
Discovery Marine Manual Call Point

58100-971MAR
Discovery Marine Manual Call Point with Isolator

Discovery Marine Waterproof Manual Call Point

The Discovery Marine Waterproof Manual Call Point has been approved for use in outdoor marine applications. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

IP67 rated

'Plug and Play' terminal connections for fast wiring

Continuity link for wiring test before commissioning

Reports an alarm in under 0.2 seconds

Resettable element

58100-975MAR
Discovery Marine Waterproof Manual Call Point

58100-976MAR
Discovery Marine Waterproof Manual Call Point with Isolator

Marine Intelligent Base Mounted UV Flame Detector

The Marine Intelligent Base Mounted UV Flame Detector is designed to protect enclosed indoor areas where open fires may be expected. The detector has a fast-acting response to flames up to 25m away and is equipped with a single UV sensor with a narrow spectral response to discriminate between flames and most spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to UV radiation emitted by flames during combustion
- Compact flame detector which fits into a Discovery Marine Base
- Loop-powered

55000-027MAR
Marine Intelligent Base Mounted UV Flame Detector

Marine Intelligent Base Mounted UV IR² Flame Detector

The Marine Intelligent Base Mounted UV IR² Flame Detector is designed to protect open indoor areas where open flaming fires may be expected. The detector has UV and dual IR sensors responding to different wavelengths to discriminate between flames and spurious sources of radiation.

- Sensitive to UV and low-frequency flickering IR radiation emitted by flames during combustion
- Compact flame detector which fits into Discovery Marine mounting bases
- Loop-powered
- False alarms due to electrical discharges from lightning or arc welding and flickering sunlight are minimised

55000-028MAR
Marine Intelligent Base Mounted UV IR² Flame Detector

Marine Intelligent Base Mounted IR³ Flame Detector

The Marine Intelligent Base Mounted IR³ Flame Detector is designed to protect all indoor areas, even in dirty or smoky conditions, where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths to discriminate between flames and spurious sources of radiation.

- Sensitive to low-frequency flickering IR radiation emitted by flames during combustion
- Compact flame detector which fits into Discovery Marine mounting bases
- Loop-powered
- False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques

55000-029MAR
Marine Intelligent Base Mounted IR³ Flame Detector

Base Mounted Flame Detector Bracket

The Base Mounted Flame Detector Bracket combines a bracket and Deckhead Mounting Box (45681-217).

29600-458
Base Mounted Flame Detector Bracket (base shown not included)

29600-226
Flame Detector Tester

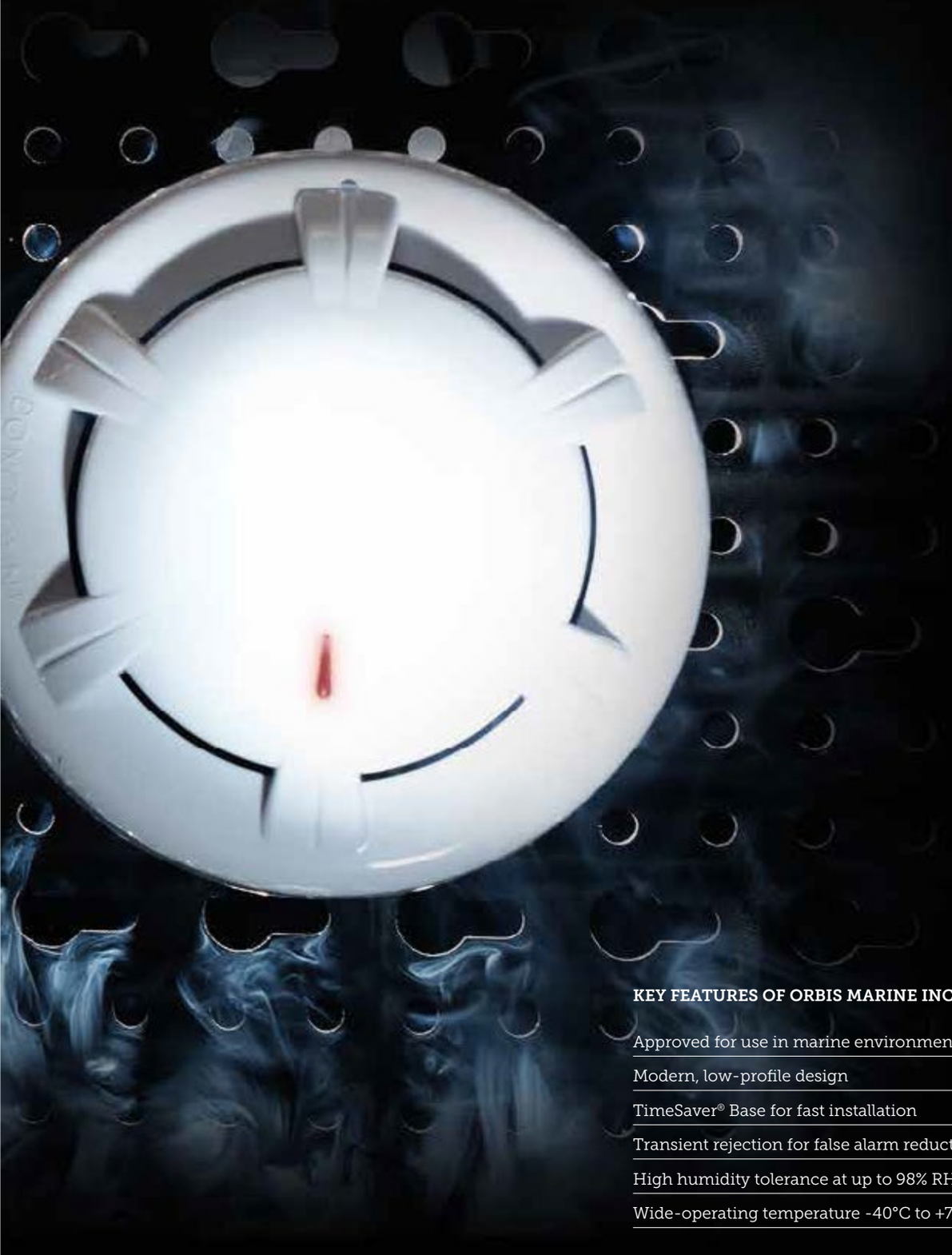
orbis®

marine & offshore

Orbis Marine conventional fire detectors offer a wealth of features to save time, enhance reliability and reduce false alarms within the marine environment. These include drift compensation and DirtAlert® - a feature that warns Service Engineers via a flashing yellow LED that detectors need maintenance and patented FasTest® - a procedure that takes just four seconds to test smoke detectors and confirm that they are functioning correctly.

ORBIS
MARINE RANGE

Find out more information at:
apollo-fire.co.uk/marine



KEY FEATURES OF ORBIS MARINE INCLUDE:

- Approved for use in marine environments
- Modern, low-profile design
- TimeSaver® Base for fast installation
- Transient rejection for false alarm reduction
- High humidity tolerance at up to 98% RH
- Wide-operating temperature -40°C to +70°C

Orbis Marine Optical Smoke Detector

The Orbis Marine Optical Smoke Detector operates on the well-established light scatter principle. However, the sensing technology is radically different in design from previous optical detectors and significantly reduces false alarms.

- Responds well to slow-burning, smouldering fires
- Performs well in detecting black and white smoke
- Extra confirmation of smoke before alarm signal is given
- Reduced incidents of false alarms
- Sensing chamber keeps out dust and other airborne contaminants
- Operates over a broad range of voltages at extremes of temperature
- Flashing LED option

ORB-OP-42001-MAR
Orbis Marine Optical Smoke Detector

ORB-OP-42003-MAR
Orbis Marine Optical Smoke Detector with flashing LED

Orbis Marine Multisensor Detector

The Orbis Marine Multisensor Detector benefits from the same false alarm reduction technology as the optical detector, with the addition of a heat sensing element.

- Responds well to fast-burning, flaming fires
- Reduced false alarms
- Increased reliability of detection
- Sensing chamber keeps out dust and other airborne contaminants
- Operates over a broad range of voltages at extremes of temperature
- Flashing LED option

ORB-OH-43001-MAR
Orbis Marine Multisensor Smoke Detector

ORB-OH-43003-MAR
Orbis Marine Multisensor Smoke Detector with flashing LED

Orbis Marine Heat Detector

The Orbis Marine Heat Detector uses a single thermistor to sense the air temperature around the detector. There are twelve heat detectors in the Orbis Marine range designed to suit a wide variety of operating conditions.

- Can be used for applications where smoke detectors are unsuitable
- Ideal for environments that are dirty or smoky under normal conditions
- Flashing LED option

ORB-HT-41001-MAR
A1R standard

ORB-HT-41013-MAR
A1R with flashing LED

ORB-HT-41002-MAR
A2S standard

ORB-HT-41014-MAR
A2S with flashing LED

ORB-HT-41003-MAR
BR standard

ORB-HT-41015-MAR
BR with flashing LED

ORB-HT-41004-MAR
BS standard

ORB-HT-41016-MAR
BS with flashing LED

ORB-HT-41005-MAR
CR standard

ORB-HT-41017-MAR
CR with flashing LED

ORB-HT-41006-MAR
CS standard

ORB-HT-41018-MAR
CS with flashing LED

Orbis Marine TimeSaver® Base

The Orbis Marine TimeSaver® Base provides installers with an open working area with fixing holes shaped to allow a simple mounting procedure.

- Grouped terminals to make wiring easy
- Multiple fixing centres
- LED alignment mark
- Cable stripping guide
- Continuity link for voltage testing of zone wiring prior to commissioning
- Detector locking mechanism

ORB-MB-00001-MAR
Orbis Marine TimeSaver® Base

Orbis Marine Relay Base

The Orbis Marine Relay Base incorporates a single-pole voltage-free changeover contact for switching ancillary equipment. When the detector changes to the alarm state, the relay is energised, causing the contact to change state. The contact will remain in this condition until the detector is reset.

- Grouped terminals to make wiring easy
- Multiple fixing centres
- LED alignment mark
- Cable stripping guide
- Continuity link for voltage testing of zone wiring prior to commissioning
- Detector locking mechanism

ORB-RB-40004-MAR
Orbis Marine Relay Base

Conventional Marine Manual Call Point

The Conventional Marine Manual Call Point has been designed to operate on conventional marine fire detection systems. It is compliant with EN 54-11 and Marine Equipment Directive 96/98/EC and is available in both indoor and outdoor variants.

- Red LED indicator
- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-021MAR
Conventional Marine Manual Call Point

55100-022MAR
Conventional Marine Waterproof Manual Call Point

Marine Series 65 Base Mounted UV Flame Detector

The Marine Series 65 Base Mounted UV Flame Detector is designed to protect enclosed indoor areas where open flaming fires may be expected. The detector has a fast acting response to flames up to 25m away and is equipped with a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to UV radiation emitted by flames during combustion
- Zone-powered

55000-026MAR
Marine Series 65 Base Mounted UV Flame Detector

45681-200MAR
Marine Mounting Base for Base Mounted Flame Detector

SIL2

Apollo Fire Detectors is pleased to announce our range of devices independently evaluated and certified to SIL2 (Safety Integrity Level). These devices have been tested under IEC61508 in respect of their primary function (Detection, Manual Call Point, Audio, Visual etc).

SIL APPROVED DEVICE RANGE

Find out more information at:
apollo-fire.co.uk/sil

CE 0832 0729

LOOP ISOLATOR
FAULT
RELAY ON
SWITCH CLOSED
XP95
INPUT/OUTPUT UNIT
WITH ISOLATOR
apollo
apollo
Optical

Discovery Optical Smoke Detector

The Discovery Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Five response modes
- Remote test feature

58000-600SIL
Discovery Optical Smoke Detector

Discovery Multisensor Detector

The Discovery Multisensor Detector comprises optical smoke and thermistor temperature sensors which give both a combined signal as well as a separate heat signal for improved false alarm management.

- Ideal for a wide range of applications
- Enhanced false alarm management
- Recommended, in specific modes, for hotel bedrooms and hospital wards
- Unaffected by wind or atmospheric pressure
- Well suited for sensitive environments
- Five response modes
- Heat only and optical only options
- Remote test feature

58000-700SIL
Discovery Multisensor Detector

Discovery Heat Detector

The Discovery Heat Detector uses a single thermistor to sense the air temperature around the detector.

- Ideal in environments that are dirty or smoky under normal conditions
- Well-suited to for warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure
- Five response modes
- Remote test feature

58000-400SIL
Discovery Heat Detector

XP95 I.S. Optical Smoke Detector

The XP95 I.S. Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well-suited to escape routes
- Unaffected by wind or atmospheric pressure

55000-640
XP95 I.S. Optical Smoke Detector

XP95 I.S. Ionisation Smoke Detector

The XP95 I.S. Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Minimal effects from temperature, humidity, atmospheric pressure

55000-540
XP95 I.S. Ionisation Smoke Detector

XP95 I.S. Heat Detector

The XP95 I.S. Heat Detector operates by measuring heat levels with a single thermistor which gives an analogue value output proportional to the external air temperature.

- Ideal for environments that are dirty or smoky under normal conditions
- Unaffected by wind or atmospheric pressure

55000-440
XP95 I.S. Heat Detector

Marine Isolating Base

The Marine Isolating Base senses and detects short-circuit faults on Discovery loops and spurs.

45681-286MAR
Marine Isolating Base

Discovery Marine Sounder Visual Indicator Base

The Discovery Marine Sounder Visual Indicator Base makes full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- Flexibility to set individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the control panel
- Electronic bell tone
- IMO 1A tone included

45681-394MAR
Discovery Marine Sounder Visual Indicator Base

29650-001
Magnetic Wand

Discovery Sounder Visual Indicator Base

The Discovery Sounder Visual Indicator Base makes full use of the Discovery protocol. For ease of commissioning a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- Flexibility to set individual control of the sounder and visual indicator
- Volume and tone settings can be selected from the control panel
- Tones can be used for other purposes in addition to warning of fire, ideal for schools
- Enables soft start option, ideal for hospitals and nursing homes
- Electronic bell tone

45681-393SIL
Discovery Sounder Visual Indicator Base

Discovery Marine Isolator

The Discovery Marine Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power in the isolated section.

- Detects wiring short-circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors or equivalent load may be installed between isolators

55000-721MAR
Discovery Marine Isolator (uses 45681-211MAR Isolator Base)

45681-211MAR
Discovery Marine Isolator Base

Input/Output Unit

The Input/Output Unit provides a voltage-free and double pole changeover (DPCO) relay output, a single monitored switch input and an unmonitored, non-polarised opto-coupled input.

- Reports faults, switch open and switch closed levels
- Three visible LEDs
- Loop-powered
- Capable of switching up to 30V at 1A
- Built in isolator

55000-847SIL
Input/Output Unit

Output Unit

The Output Unit provides a voltage-free single pole, changeover relay output. It is a simplified version of the Input/Output Unit without circuitry for monitoring inputs.

- Capable of switching up to 30V at 1A
- Built in isolator

55000-849SIL
Output Unit

Marine Mini Switch Monitor

The Marine Mini Switch Monitor is an interface within an entirely new housing. Designed in response to customer feedback, the smaller Mini Switch Monitor can be fitted onto a 35mm DIN-Rail with a twist-click motion or mounted in an enclosure such as a manual call point. It is designed to monitor the state of one or more single pole, volt-free contacts connected to a single pair of cables and to report the status to Apollo-compatible control equipment.

- Designed for use where space is limited
- Isolated as standard
- Interrupt/non interrupt in one unit
- 'Pre-alarm' status available
- Three coloured LEDs giving clear status indication

55000-775MAR
Marine Mini Switch Monitor

Marine DIN-Rail Dual Isolator

The Marine DIN-Rail Dual Isolator provides two independent isolators which sense and isolate short-circuits on loops and spurs.

- Loop-powered
- Up to 20 detectors can be installed between isolators
- Allows fully isolated spurs

55000-770MAR
Marine DIN-Rail Dual Isolator

Marine DIN-Rail Zone Monitor

The Marine DIN-Rail Zone Monitor with isolator controls a zone of up to 20 Apollo Orbis Marine fire detectors in a loop.

- Loop-powered
- Visible short-circuit LED
- Built-in isolator

55000-773MAR
Marine DIN-Rail Zone Monitor

XP95 Protocol Translator

The XP95 Protocol Translator is installed in the safe area, ensuring integrity of communication between control equipment and field devices and safety within the limits of BASEEFA approvals.

- Loop-powered
- Translates voltage levels from a loop driver to be compatible with I.S. requirements

55000-855SIL
XP95 Protocol
Translator (single channel)

55000-856SIL
XP95 Protocol
Translator (dual channel)

Apollo XP95 I.S. Manual Call Point

The Apollo XP95 I.S. Manual Call Point has been designed for use in atmospheres in which explosive mixtures may be present. The device is rated to be used in Zones 2, 1 & 0.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomically designed key for resetting and front cover removal

55200-940SIL
Apollo XP95 I.S. Manual Call Point

Discovery Manual Call Point

The Discovery Manual Call Point has a seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- Flashing LED option to indicate polling (Discovery systems only)
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-910SIL
Discovery Manual Call Point

58100-908SIL
Discovery Manual Call Point with Isolator

Discovery Marine Manual Call Point

The Discovery Marine Manual Call Point has been approved for use in indoor marine applications. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- Flashing LED option to indicate polling (Discovery systems only)
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-971MAR
Discovery Marine Manual Call Point with Isolator

58100-976MAR
Discovery Marine Waterproof Manual Call Point with Isolator

Waterproof Manual Call Point

The Waterproof Manual Call Point has been designed for use outdoors and in places where moisture can occur. A seven-segment DIL switch enables addressing of each call point at commissioning stage. When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.

- IP67 rated
- 'Plug and Play' terminal connections for fast wiring
- Continuity link for wiring test before commissioning
- Reports an alarm in under 0.2 seconds
- Resettable element

58100-950SIL
Waterproof Manual Call Point

58100-951SIL
Waterproof Manual Call Point with Isolator

Intrinsically Safe

Apollo offers both analogue addressable and conventional smoke and heat detector ranges, designed to be intrinsically safe as they meet the requirements of the ATEX directive.

There are many places where an explosive mixture of air and gas or vapour may be present continuously, intermittently or as a result of an accident. These are defined as hazardous areas by BS EN 60079, which is the code of practice for installation and maintenance of electrical apparatus in potentially explosive atmospheres.

Hazardous areas are common in petroleum and chemical engineering plants and in factories processing and storing gases, solvents, paints and other volatile substances.

Electrical equipment for use in these areas needs to be designed so that it cannot ignite an explosive mixture, not only in normal operation but also in fault conditions. There are a number of methods available to achieve this but one of the most common is intrinsic safety. The Apollo I.S. range is compliant with MED 94/9/EC.

INTRINSICALLY SAFE RANGE

Find out more information at:
apollo-fire.co.uk/is

XP95®

orbis®

ENGINEERING PLANTS

Hazardous areas and potentially explosive atmospheres within these environments require electrical equipment that cannot ignite an explosive mixture, achievable by using the Apollo intrinsically safe range.

FACTORY ENVIRONMENTS

Factories where the processing or storing of gases, solvents, paints and other volatile substances are defined as hazardous areas and are required to follow the BS EN 60079 code of practice. The Apollo Intrinsically Safe range fulfils these requirements.

XP95 Intrinsically Safe (I.S.) detectors are a development of the well-established analogue addressable XP95 range from Apollo. XP95 I.S. detectors feature all of the benefits of the standard range, but are developed specifically for use in hazardous areas. The addresses of XP95 I.S. detectors are set by means of the patented XPERT 7 Card. See page 30 for more details.

INTRINSICALLY SAFE XP95 RANGE

Find out more information at:
apollo-fire.co.uk/is

XP95 I.S. Optical Smoke Detector

The XP95 I.S. Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well-suited to escape routes
- Unaffected by wind or atmospheric pressure

55000-640
XP95 I.S. Optical Smoke Detector

XP95 I.S. Ionisation Smoke Detector

The XP95 I.S. Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced, leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Minimal effects from temperature, humidity, atmospheric pressure

55000-540
XP95 I.S. Ionisation Smoke Detector

XP95 I.S. Heat Detector

The XP95 I.S. Heat Detector operates by measuring heat levels with a single thermistor which gives a count output proportional to the external air temperature.

- Ideal for environments that are dirty or smoky under normal conditions
- Unaffected by wind or atmospheric pressure

55000-440
XP95 I.S. Heat Detector

XP95 I.S. Mounting Base

The XP95 I.S. Mounting Base has been designed to accept only I.S. products. This ensures that standard detectors cannot inadvertently be fitted into an Intrinsically Safe system. XPERT 7 Cards are supplied with all bases.

- XPERT 7 Card addressing
- One-way fit
- Only accepts I.S. detectors

45681-215
XP95 I.S. Mounting Base

Apollo XP95 I.S. Manual Call Point

The Apollo XP95 I.S. Manual Call Point has been designed to be used in atmospheres in which explosive mixtures may be present. The device is rated to be used in Zones 2, 1 & 0.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomically designed key for resetting and front cover removal
- IP67 rated

55200-940
Apollo XP95 I.S. Manual Call Point

XP95 I.S. Manual Call Point – MEDC Style

The XP95 I.S. Manual Call Point – MEDC Style is recommended for heavy duty applications. This model is made of glass-reinforced polyester and may be ordered as break-glass or push-button style.

- Reports an alarm in under 0.2 seconds
- Waterproof
- Robust design

Break-glass:

55000-960 Red
55000-962 Yellow*
55000-964 Blue*
55000-966 Black/yellow stripes*

Break-glass with flap:

55000-961 Red
55000-963 Yellow*
55000-965 Blue*
55000-967 Black/yellow stripes*

* Does not comply with EN 54-11.

XP95 I.S. Galvanic Barrier

The XP95 I.S. Galvanic Barrier is installed in the safe area and ensures system integrity.

Enables compliance to the ATEX directive

29600-098
XP95 I.S. Galvanic Barrier

XP95 Protocol Translator

The XP95 Protocol Translator is installed in the safe area, ensuring safety integrity of communication between control equipment and field devices within the limits of BASEEFA approvals.

Loop-powered

Translates voltage levels from a loop driver to be compatible with I.S. requirements

55000-855
XP95 Protocol Translator (single channel)

55000-856
XP95 Protocol Translator (dual channel)

DIN-Rail Interface Enclosures

DIN-Rail Interface Enclosures are available in two sizes and can be used for housing Intrinsically Safe (I.S.) barriers or DIN-Rail mounted interfaces. A multi-purpose label that features a section for use with I.S. systems is supplied. For non-I.S. systems, the part referring to I.S. can simply be removed.

Allows multiple interfaces to be housed together

IP67 rated

29600-239
DIN-Rail Interface Enclosure (4 units)

29600-240
DIN-Rail Interface Enclosure (10 units)

orbis®

Orbis I.S. is a range of conventional detectors which has been developed from standard Orbis smoke and heat detectors. Orbis I.S. features modern styling and is electronically compatible with Apollo Series 60 Intrinsically Safe conventional detectors. Orbis I.S. is a demonstration of Apollo's commitment to the market for high-quality conventional detectors for use in small to medium size installations. In developing this range, Apollo has focused on ease of installation and reliability in daily operation.

KEY FEATURES OF ORBIS I.S. INCLUDE:

- TimeSaver® Base
- Patented FasTest® enabling functional testing in four seconds
- DirtAlert® indicates limit of drift compensation
- Tolerates extreme operating conditions: -40°C to +70°C
- False alarm reduction
- Flashing LED option

INTRINSICALLY SAFE ORBIS RANGE

Find out more information at:
apollo-fire.co.uk/is

0832
1180

Orbis I.S. Optical Smoke Detector

The Orbis I.S. Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Reduces false alarms
- Recommended for early warning of fire in most areas
- Improved sensitivity to black smoke
- Compensation for slow changes in sensitivity
- Algorithms for reliability of alarm

ORB-OP-52027-APO
Orbis I.S. Optical Smoke Detector

ORB-OP-52028-APO
Orbis I.S. Optical Smoke Detector with flashing LED

Orbis I.S. Multisensor Smoke Detector

The Orbis I.S. Multisensor Smoke Detector benefits from the same false alarm technology as the Optical Smoke Detector, with the addition of a heat sensing element.

- Reduces false alarms
- Sensitive to fast burning, flaming fires
- Improved sensitivity to black smoke
- Compensation for slow changes in sensitivity
- Algorithms for reliability of alarm

ORB-OH-53027-APO
Orbis I.S. Multisensor Detector

ORB-OH-53028-APO
Orbis I.S. Multisensor Detector with flashing LED

Orbis I.S. Heat Detector

The Orbis I.S. Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature.

- Can be used for applications where smoke detectors are unsuitable
- Ideal for environments that are dirty or smoky under normal conditions
- Reduced incidences of false alarms
- Increased reliability of detection

Standard:

ORB-HT-51145-APO A1R
ORB HT 51157 APO A1S
ORB-HT-51147-APO A2S
ORB-HT-51149-APO BR
ORB-HT-51151-APO BS
ORB-HT-51153-APO CR
ORB-HT-51155-APO CS

With flashing LED:

ORB-HT-51146-APO A1R
ORB HT 51158 APO A1S
ORB-HT-51148-APO A2S
ORB-HT-51150-APO BR
ORB-HT-51152-APO BS
ORB-HT-51154-APO CR
ORB-HT-51156-APO CS

Orbis I.S. TimeSaver® Base

The Orbis I.S. TimeSaver® Base provides installers with an open working area with fixing holes shaped to allow a simple mounting procedure.

- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Detector locking mechanism

ORB-MB-50018-APO
Orbis I.S. Timesaver® Base

Orbis I.S. Adaptor

The Orbis I.S. Adaptor enables Orbis I.S. detector heads to be fitted into existing Series 60 I.S. bases in order to upgrade systems with minimal disruption.

- Eliminates the need for re-wiring

ORB-BA-50008-APO
Orbis I.S. Adaptor

Conventional I.S. Manual Call Point

The Conventional I.S. Manual Call Point has been designed to operate on conventional Intrinsically Safe fire detection systems specifically in areas where explosive mixtures are or may be present.

- 'Plug and Play' terminal connections for fast wiring
- Resettable element

55100-031
Conventional I.S. Manual Call Point

55100-032
Conventional I.S. Manual Call Point (Non-Standard) yellow

55100-033
Conventional I.S. Waterproof Manual Call Point

55100-034
Conventional I.S. Waterproof Manual Call Point (Non-Standard) yellow

Explosion Proof Manual Call Point

The Conventional Explosion Proof Manual Call Point is break-glass operated with a flap. It is approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems.

- ATEX certified
- IECEx certified

29600-508
Explosion Proof Manual Call Point

Conventional I.S. Sounder and Sounder Visual Indicator

The I.S. Conventional Sounder and Conventional Sounder Visual Indicator are suitable for intrinsically safe signalling applications including fire, security and process control. The Conventional I.S. Sounder is also available for Group I mining.

- ATEX certified
- IECEx certified
- GOST-R certified for Zone 0 applications
- FM certified for Class I Division 1 and Class I Zone 0 applications

29600-379
I.S. Conventional Sounder

29600-446
I.S. Conventional Sounder Visual Indicator

AV Galvanic Barrier

The AV Galvanic Barrier is installed in the safe area and provides connection to Audio Visual Alarms in a hazardous area.

- Enables compliance with the ATEX directive
- Approved up to SIL3

29600-440
AV Galvanic Barrier

Conventional Galvanic Barrier

The Conventional Galvanic Barrier is installed in the safe area and ensures system integrity.

- Enables compliance with the ATEX directive

29600-378
Conventional Galvanic Barrier

DIN-Rail Interface Enclosures

DIN-Rail Interface Enclosures are available in two sizes and can be used for housing Intrinsically Safe (I.S.) barriers or DIN-Rail mounted interfaces. A multi-purpose label that features a section for use with I.S. systems is supplied. For non-I.S. systems, the part referring to I.S. can simply be removed.

- Allows multiple interfaces to be housed together
- IP67 rated

29600-239
DIN-Rail Interface Enclosure (4 units)

29600-240
DIN-Rail Interface Enclosure (10 units)

UL/ULC/FM

Apollo's product offering includes devices which have been developed and approved for the UL/ULC/FM markets. We have carefully researched and developed these ranges to ensure that they meet not only UL and other standards, but also the demands of today's high-technology environments.

UL/ULC/FM RANGE

Find out more information at:
apollo-fire.co.uk/analogueaddressable

KEY FEATURES OF DISCOVERY UL INCLUDE:

- XPERT 7 Card addressing
- Resists steam and cigarette smoke
- Flashing LED option
- Five approved response modes to provide adaptability to changing environments
- Drift compensation to ensure constant sensitivity
- Capable of recording site specific data in the detector
- Alarm flags for fast alarm reporting
- Conventional alarm facility during control panel processor fault
- 360° visibility alarm indication
- Compatible with XP95A systems

ADVANCED FEATURES FOR NOTIFICATION DEVICES:

- Global and group addressing
- 15 tone pairs
- Volume selection
- Synchronisation of all loop-powered notification devices

DISCOVERY®

Discovery UL is a line of high-specification, intelligent fire detectors developed to meet the requirements of sophisticated systems while providing engineers with an additional dimension in fire protection capability. Discovery UL has a 'distributed intelligence' system where decisions are made in the detector head as well as at the control panel. Drift compensation is also incorporated into the detector, allowing it to adapt to dirty or dusty environments, reducing false alarms.

Each detector in the Discovery UL range can operate in one of five response modes which can be selected from the control panel. The response characteristics have been carefully established so that the detectors comply with the requirements of UL in all response modes. Mode One will give a higher sensitivity to fire than Mode Five. Discovery UL gives you total reassurance in installations where adaptability to changing conditions and protection against unwanted alarms is vital.

UL/ULC/FM DISCOVERY

Find out more information at:
apollo-fire.co.uk/discoveryul

Discovery UL Photoelectric Smoke Detector

The Discovery UL Photoelectric Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smoldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Remote test feature

58000-650
Discovery UL Photoelectric Smoke Detector

Discovery UL Multisensor Detector

The Discovery UL Multisensor Detector consists of photoelectric smoke and thermistor temperature sensors whose outputs are combined to give the final analogue value. As a result, the multisensor is useful over a wide range of applications and is highly immune to false alarms.

- Ideal for wide range of applications
- Highly immune to false alarms
- Well-suited to sensitive environments
- Unaffected by wind or atmospheric pressure
- Remote test feature

58000-750
Discovery UL Multisensor Detector

Discovery UL Ionisation Smoke Detector

The Discovery UL Ionisation Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chambers and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Remote test feature

58000-550
Discovery UL Ionisation Smoke Detector

Discovery UL Heat Detector

The Discovery UL Heat Detector is distinguishable by the low airflow resistant case and uses a single thermistor to sense the air temperature around the detector.

- Ideal for environments that are dirty or smoky under normal conditions
- Well-suited to warehouses, loading docks and parking garages
- Unaffected by wind or atmospheric pressure
- Remote test feature

58000-450
Discovery UL Heat Detector

XP95A Low Power Relay Base

The XP95A Low Power Relay Base incorporates a low power relay to control field equipment, such as automatic door closers.

Gives a set of voltage-free contacts controlled by the remote output of a detector

Draws negligible current

45681-242UL
XP95A Low Power Relay Base 4"

XP95A Mounting Base

All detectors in the XP95A product line fit the XP95A Mounting Base which is a low insertion force base with stainless steel contacts for the detector terminals. XPERT 7 Cards are supplied with all bases.

XPERT 7 Card addressing

One-way fit

Locking feature to prevent unauthorised removal

45681-210UL
XP95A Mounting Base 4"

45681-225APO
XP95A Mounting Base 6"

E-Z Fit Base

The E-Z Fit Base is a low profile 6 mounting base for XP95A detectors.

High degree of protection against unauthorised removal

45681-250
E-Z Fit Base

XP95A Isolating Base

The XP95A Isolating Base senses and detects short-circuit faults on XP95A loops and spurs.

Up to 20 devices may be installed between isolating bases

XPERT 7 Card addressing

45681-321UL
XP95A Isolating Base

Discovery UL Sounder Visual Indicator Base

The Discovery UL Sounder Visual Indicator Base makes full use of the Discovery protocol. For ease of commissioning, a 'Magnetic Wand' can be used to test and adjust each sounder locally.

- Sounder and visual indicator are independently configurable
- Volume and tone settings are independently selectable from the control panel
- Tones can be used for other purposes in addition to warning of fire, ideal for schools etc
- Enables soft start option, ideal for hospitals and nursing homes
- Electronic bell tone

45681-524
Discovery UL Sounder Visual Indicator Base (red LEDs)

45681-527
Discovery UL Sounder Visual Indicator Base (yellow LEDs)

29650-001
Magnetic Wand

Discovery UL Open-Area Sounder Visual Indicator

The Discovery UL Open-Area Sounder Visual Indicator makes full use of the Discovery protocol, designed for use in indoor, outdoor and open areas.

- 15 tone pairs
- Sounder and visual indicator are independently configurable
- Volume and tone settings are independently selectable from the control panel
- Tones can be used for other purposes in addition to warning of fire, ideal for use in schools etc
- Soft start option, ideal for hospitals and nursing homes
- Group and global control for increased response time

58000-011
Discovery UL Open-Area Sounder Visual Indicator (red)

58000-012
Discovery UL Open-Area Sounder Visual Indicator (white)

SL-DAA Two-Wire Analogue Addressable Duct Smoke Detector

Offering compatibility with fire alarm systems utilising Apollo XP95 and/or Discovery protocol, the SL-DAA Series Duct Smoke Detector is a two-wire analogue addressable device. It is designed for the early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial, and residential applications. The unit prevents the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down via the building's fire alarm control panel (FACP) in the event of smoke detection. Output terminals are provided for a remote alarm indicator accessory.

- Two-Wire addressable detector with relay output
- XP95A sensor
- Wide-operating voltage

SL-DAA-N
Ionisation

SL-DAA-P
Photoelectric

SL-DA4R Four-Wire Analogue Addressable Duct Smoke Detector

Offering compatibility with fire alarm systems utilising Apollo XP95 and/or Discovery protocol, the SL-DA4R Series Duct Smoke Detector is a four-wire analogue addressable device used for early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial, and residential applications. The unit is designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down via the building's fire alarm control panel (FACP) in the event of smoke detection. One set of 15A form "C" alarm contacts are provided for a wide range of remote accessories such as horns, strobes, remote status indicators and test key switches or push-buttons.

- Four-Wire addressable detector with relay output
- XP95A sensor
- Wide-operating voltage

SL-DA4R-N
Ionisation

SL-DA4R-P
Photoelectric

XP95A Isolator

The XP95A Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

- Detects wiring short-circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 devices may be installed between isolators

55000-750
XP95A Isolator

XP95A Mini Switch Monitor Module

The XP95A Mini Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report the status to Apollo-compatible analogue control equipment.

- Three input states - 'normal', 'trouble', and 'alarm'
- Visible LED with remote LED connection option
- Loop-powered
- Designed to fit into equipment with limited space
- Easy to install

55000-831
XP95A Mini Switch Monitor Module

XP95A Mini Priority Switch Monitor Module

The XP95A Mini Priority Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report the status to Apollo-compatible analogue control equipment. It can also place a signal on the loop to provide early warning if a device such as a pull station is operated.

- Three input states - 'normal', 'trouble' and 'alarm'
- Visible LED with remote LED connection option
- Loop-powered
- Designed to fit into equipment with limited space
- Easy to install
- Monitors equipment where a fast response is required
- Interrupt facility

55000-830
XP95A Mini Priority Switch Monitor Module

XP95A Switch Monitor Module

The XP95A Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report this status to Apollo-compatible analogue control equipment.

- Three input states - 'normal', 'trouble', and 'alarm'
- Visible LED
- Loop-powered

55000-805
XP95A Switch Monitor Module

XP95A Priority Switch Monitor Module

The XP95A Priority Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report this status to Apollo-compatible analogue control equipment. It can also place a signal on the loop to provide early warning if a device such as a pull station is operated.

- Three input states - 'normal', 'trouble', and 'alarm'
- Visible LED
- Loop-powered
- Fast response time
- Interrupt facility

55000-806
XP95A Priority Switch Monitor Module

XP95A Dual Priority Switch Monitor Module

The XP95A Dual Priority Switch Monitor Module contains two priority mini switch monitor modules on a single plate.

- Loop-powered
- Fast response time
- Interrupt facility

55000-790
XP95A Dual Priority Switch Monitor Module

XP95A Switch Monitor Input/ Output Module

The XP95A Switch Monitor Input/ Output Module provides a voltage-free and single pole changeover relay output, a single, monitored switch input and an unmonitored, non-polarised opto-coupled input.

- Reports 'trouble', 'switch open' and 'switch closed' levels
- Visible LED
- Loop-powered

55000-820
XP95A Switch Monitor Input/Output Module

XP95A Sounder Control Module

The XP95A Sounder Control Module monitors and controls the operation of a zone of conventional sounders and reports their status to the control panel.

- Allows sounders to be operated continuously or be pulsed, one second on, one second off
- May be synchronised when in pulsed operation
- Can also be used for public address speakers

55000-825
XP95A Sounder Control Module

XP95A Relay Output Module

The XP95A Relay Output Module provides a single two-pole changeover relay.

- Loop-powered
- Can be placed anywhere on the loop

55000-863
XP95A Relay Output Module

XP95A 120V AC Input/Output Module

The XP95A 120V AC Input/Output module is a loop-powered device which incorporates a monitored input circuit for connection to dry contacts, as well as a 120V AC 4A rated dry contact relay output. It is mounted in a plastic facia plate for use with a 4□ square or two-gang electrical back box.

- Loop-powered
- Visible LEDs

55000-859
XP95A 120V AC Input/Output Module

Mini Monitor Module

The Mini Monitor Module is an interface within an entirely new housing. This allows the unit to be fitted onto a standard 35mm DIN-Rail (using a twist-click motion) or mounted within an enclosure, for example a Pull Station. It is designed to monitor the state of one or more single pole, voltage-free contacts connected on a single pair of cables and to report this status to Apollo-compatible analogue control equipment.

- Designed for use where space is limited
- Interrupt/non interrupt in one unit
- 'Pre-alarm' status available
- Three, coloured LEDs, giving clearer status indication

55000-765
Mini Monitor Module

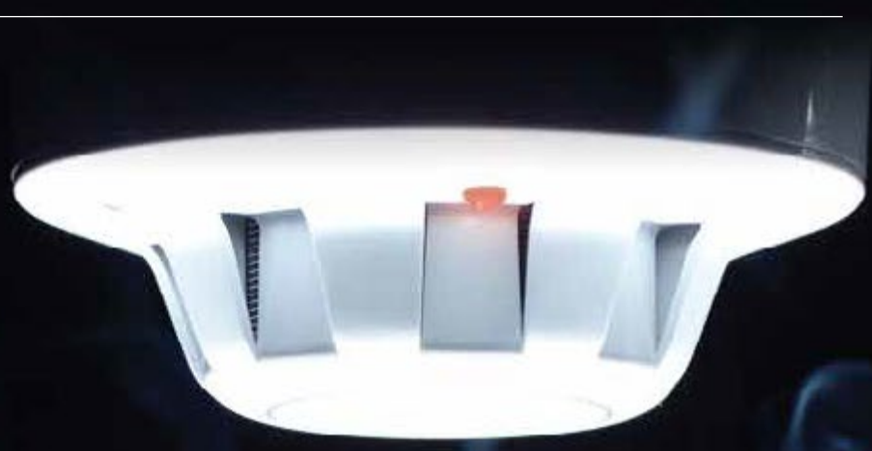
Dual Action Addressable Manual Pull Station

The Dual Action Addressable Manual Pull Station features translucent plastic at the centre, allowing visibility of an internal LED that indicates alarm condition and polling status. The unit is addressable using a DIP switch protected within the pull station. The pull station may be flush mounted on a single gang work box or use an optional back cover (56000-006).

- Control panel compatibility
- Key lock
- Easily resettable
- Lightweight polycarbonate housing

56000-005
Dual Action Addressable Manual Pull Station

56000-006
Backbox



XP95A

The XP95A range of analogue addressable fire detectors is advanced in design and performance and offers unique features that benefit both the installer and the end user.

The range is based on Apollo's XP95 products. XP95A has a 'central intelligence' system where all the decisions are made by the control panel. Each detector is addressed using Apollo's patented XPERT 7 Card, supplied with the mounting bases. The XP95A range includes an Ionisation Detector, a Photoelectric Detector, a Heat Detector, a Multisensor, an Isolator and a series of Modules.

UL/ULC/FM XP95

Find out more information at:
apollo-fire.co.uk/xp95a

KEY FEATURES OF XP95A INCLUDE:

- XPERT 7 Card addressing
- Analogue value report
- Alarm flags for fast alarm response
- Synchronisation of all loop-powered notification devices
- Advanced error check

XP95A Photoelectric Smoke Detector

The XP95A Photoelectric Smoke Detector works on the light-scatter principle and is ideal for applications where slow-burning or smoldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by atmospheric pressure

55000-650
XP95A Photoelectric Smoke Detector

XP95A Multisensor

The XP95A Multisensor contains a photoelectric smoke sensor and a thermistor (temperature sensor) whose outputs are combined to give the final analogue value.

- Sensitive to a wide range of fires
- Well-suited to environments such as hotel bedrooms, warehouses and loading docks
- Unaffected by wind or atmospheric pressure

55000-886
XP95A Multisensor

XP95A Ionisation Smoke Detector

The XP95A Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chambers causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Minimal effects from temperature, humidity, atmospheric pressure

55000-550
XP95A Ionisation Smoke Detector †

55000-555
XP95A Ionisation Smoke Detector (ULC)

XP95A Heat Detector

The XP95A Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature. It is classified as an ordinary detector by UL.

- Ideal for environments that are dirty or smoky under normal conditions
- Well-suited to warehouses, loading docks and parking garages
- Unaffected by wind or atmospheric pressure

55000-450
XP95A Heat Detector

† Does not have ULC approval

XP95A Low Power Relay Base

The XP95A Low Power Relay Base incorporates a low power relay to control field equipment such as automatic door closers.

Gives a set of voltage-free contacts controlled by the remote output of a detector

Draws negligible current

45681-242UL
XP95A Low Power Relay Base 4"

XP95A Mounting Base

All detectors in the XP95A product line fit the XP95A Mounting Base which is a low insertion force base with stainless steel contacts for the detector terminals. XPERT 7 Cards are supplied with all bases.

XPERT 7 Card addressing

One-way fit

Locking feature to prevent unauthorised removal

45681-210UL
XP95A Mounting Base 4"

45681-225APO
XP95A Mounting Base 6"

E-Z Fit Base

The E-Z Fit Base is a low profile 6 mounting base for XP95A detectors.

High degree of protection against unauthorised removal

45681-250
E-Z Fit Base

XP95A Isolating Base

The XP95A Isolating Base senses and detects short-circuit faults on XP95A loops and spurs.

Up to 20 devices may be installed between isolating bases

XPERT 7 Card addressing

45681-321UL
XP95A Isolating Base

XP95A Sounder Visual Indicator Base

The XP95A Sounder Visual Indicator Base is a loop-powered sounder and visual indicator combined with a standard Intelligent Mounting Base. It is used to signal a fire alarm in enclosed areas. The sounder visual indicator base can be used either with a detector fitted or with a cap for operation as a stand-alone alarm device.

- Two volume ranges 55-75dB(A) and 75-91dB(A)
- Visual indicator flash rate of once per second
- Synchronisation of 'alert' and 'evacuate' tones
- Synchronisation of visual indicator flash
- Individual and group addressing
- Unique acoustic and visual indicator self-test
- Built-in isolator

45681-525
XP95A Sounder Visual Indicator Base (yellow LEDs)

45681-526
XP95A Sounder Visual Indicator Base (red LEDs)

XP95A Open-Area Sounder

The XP95A Open-Area Sounder has been designed for use in open areas and can be connected to any Discovery UL or XP95A system.

- For use with XP95A and Discovery UL systems
- Self-test trouble monitoring
- Two volume settings 92dB(A) and 100dB(A)
- Synchronisation of tones
- Individual and group addressing
- Built-in isolator
- Available in red or white
- Loop-powered
- IP65 rated

55000-041
XP95A Open-Area Sounder (red)

55000-042
XP95A Open-Area Sounder (white)

SL-DAA Two-Wire Analogue Addressable Duct Smoke Detector

Offering compatibility with fire alarm systems utilising Apollo XP95 and/or Discovery protocol, the SL-DAA Series Duct Smoke Detector is a two-wire analogue addressable device used for early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial, and residential applications. The unit is designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down via the building's fire alarm control panel (FACP) in the event of smoke detection. Output terminals are provided for a remote alarm indicator accessory.

- Two-Wire addressable detector with relay output
- XP95A sensor
- Wide-operating voltage

SL-DAA-N
Ionisation

SL-DAA-P
Photoelectric

SL-DA4R Four-Wire Analogue Addressable Duct Smoke Detector

Offering compatibility with fire alarm systems utilising Apollo XP95 and/or Discovery protocol, the SL-DA4R Series Duct Smoke Detector is a four-wire analogue addressable device. It is used for the early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial, and residential applications. The unit is designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down via the building's fire alarm control panel (FACP) in the event of smoke detection. One set of 15A form "C" alarm contacts are provided for a wide range of remote accessories such as horns, strobes, remote status indicators and test key switches or push-buttons.

- Four-Wire addressable detector with relay output
- XP95A sensor
- Wide-operating voltage

SL-DA4R-N
Ionisation

SL-DA4R-P
Photoelectric

XP95A Isolator

The XP95A Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

- Detects wiring short-circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 devices may be installed between isolators

55000-750
XP95A Isolator

XP95A Mini Switch Monitor Module

The XP95A Mini Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report this status to Apollo-compatible analogue control equipment.

- Three input states - 'normal', 'trouble', and 'alarm'
- Visible LED with remote LED connection option
- Loop-powered
- Designed to fit into equipment with limited space
- Easy to install

55000-831
XP95A Mini Switch Monitor Module

XP95A Mini Priority Switch Monitor Module

The XP95A Mini Priority Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report this status to Apollo-compatible analogue control equipment. It can also place a signal on this loop to provide early warning if a device such as a pull station is operated.

- Three input states - 'normal', 'trouble' and 'alarm'
- Visible LED with remote LED connection option
- Loop-powered
- Designed to fit into equipment with limited space
- Easy to install
- Monitors equipment where a fast response is required
- Interrupt facility

55000-830
XP95A Mini Priority Switch Monitor Module

XP95A Switch Monitor Module

The XP95A Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report this status to Apollo-compatible analogue control equipment.

- Three input states - 'normal', 'trouble', and 'alarm'
- Visible LED
- Loop-powered

55000-805
XP95A Switch Monitor Module

XP95A Priority Switch Monitor Module

The XP95A Priority Switch Monitor Module is designed to monitor the state of one or more single pole, voltage-free contacts and to report this status to Apollo-compatible analogue control equipment. It can also place a signal on the loop to provide early warning if a device such as a pull station is operated.

- Three input states - 'normal', 'trouble', and 'alarm'
- Visible LED
- Loop-powered
- Fast response time
- Interrupt facility

55000-806
XP95A Priority Switch Monitor Module

XP95A Dual Priority Switch Monitor Module

The XP95A Dual Priority Switch Monitor Module contains two priority mini switch monitor modules on a single plate.

- Loop-powered
- Fast response time
- Interrupt facility

55000-790
XP95A Dual Priority Switch Monitor Module

XP95A Switch Monitor Input/ Output Module

The XP95A Switch Monitor Input/Output Module provides a voltage-free, single pole, changeover relay output, a single, monitored switch input and unmonitored, non-polarised opto-coupled input.

Reports 'trouble', 'switch open' and 'switch closed' levels

Visible LED

Loop-powered

55000-820
XP95A Switch Monitor Input/Output Module

XP95A Sounder Control Module

The XP95A Sounder Control Module monitors and controls the operation of a zone of conventional sounders and reports their status' to the control panel.

Allows sounders to be operated continuously or be pulsed, one second on, one second off

May be synchronised when in pulsed operation

Can also be used for public address speakers

55000-825
XP95A Sounder Control Module

XP95A Relay Output Module

The XP95A Relay Output Module provides a single two-pole changeover relay.

Loop-powered

Can be placed anywhere on the loop

55000-863
XP95A Relay Output Module

XP95A 120V AC Input/Output Module

The XP95A 120V AC Input/Output module is a loop-powered device which incorporates a monitored input circuit for connection to dry contacts, in addition to a 120V AC 4A rated dry contact relay output. It is mounted in a plastic facia plate for use with a 4□ square or two-gang electrical back box.

- Loop-powered
- Visible LEDs

55000-859
XP95A 120V AC Input/Output Module

Mini Monitor Module

The Mini Monitor Module is an interface within an entirely new housing. This allows the unit to be fitted onto a standard 35mm DIN-Rail (using a twist-click motion) or mounted within an enclosure, for example a pull station. It is designed to monitor the state of one or more single pole, voltage-free contacts connected on a single pair of cables and to report this status to Apollo-compatible analogue control equipment.

- Designed for use where space is limited
- Interrupt/non interrupt in one unit
- 'Pre-alarm' status available
- Three, coloured LEDs, giving clearer status indication

55000-765
Mini Monitor Module

Dual Action Addressable Manual Pull Station

The Dual Action Addressable Manual Pull Station features translucent plastic at the centre, allowing visibility of an internal LED that indicates alarm condition and polling status. The unit is addressable using a DIP switch protected within the pull station. The pull station may be flush mounted on a single gang work box or use an optional back cover (56000-006).

- Control panel compatibility
- Key lock
- Easily resettable
- Lightweight polycarbonate housing

56000-005
Dual Action Addressable Manual Pull Station

56000-006
Backbox

series 65A 9-33V

Series 65A is a range of conventional fire detectors available in three versions:

- **STANDARD**
- **FLASHING LED**
- **FLASHING LED AND MAGNET OPERATED TEST SWITCH**

UL/ULC/FM SERIES 65

Find out more information at:
apollo-fire.co.uk/series-65a

Series 65A Photoelectric Smoke Detector

The Series 65A Photoelectric Smoke Detector incorporates a pulsing LED located within the housing of the detector. The detector housing is identical to that of the Ionisation Detector apart from an indicator LED which is clear in quiescent state but produces red light in alarm.

- Responds well to slow-burning, smouldering fires
- Well-suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Wide-operating voltage
- Flashing LED option
- Flashing LED and magnet operated test switch option

55000-327
Series 65A Photoelectric Smoke Detector

55000-326
Series 65A Photoelectric Smoke Detector with flashing LED

55000-325
Series 65A Photoelectric Smoke Detector with flashing LED and magnetic test

55000-328
Series 65A Photoelectric Smoke Detector – high sensitivity

Series 65A Ionisation Smoke Detector

The Series 65A Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Wide-operating voltage
- Flashing LED option
- Flashing LED and magnet operated test switch option

55000-227
Series 65A Ionisation Smoke Detector

55000-226
Series 65A Ionisation Smoke Detector with flashing LED

55000-225
Series 65A Ionisation Smoke Detector with flashing LED and magnetic test

Series 65A Heat Detector

The Series 65A Heat Detector monitors temperature by using a dual thermistor network providing a voltage output proportional to the external air temperature. There are nine heat detectors in the Series 65A range designed to suit a wide variety of operating conditions.

- Can be used for applications where smoke detectors are unsuitable
- Ideal environments that are dirty or smoky under normal conditions
- Wide-operating voltage
- Flashing LED option
- Flashing LED and magnet operated test switch option

55000-140 135°F

55000-139 135°F with flashing LED

55000-138 135°F with flashing LED and magnetic test

55000-143 170°F

55000-142 170°F with flashing LED

55000-141 170°F with flashing LED and magnetic test

55000-146 200°F

55000-145 200°F with flashing LED

55000-144 200°F with flashing LED and magnetic test

SL-2000 Conventional Duct Smoke Detector

The SL-2000 is a four-wire conventional duct smoke detector including many features that represent true innovations from current generation duct smoke detectors. The SL-2000 is designed and built to meet the NFPA and ICC standards regarding HVAC supply and return duct smoke detectors. Output terminals are provided for a wide range of remote accessories, such as horns, strobes, remote status indicators, and test/reset key switches or push-buttons.

- Four-Wire conventional detector
- No-tools features
- Wide-operating voltage

SL-2000-N
Ionisation
(29600-935)

SL-2000-P
Photoelectric
(29600-934)

SL-D2W Conventional Duct Smoke Detector

The SL-D2W Duct Smoke Detector is a two-wire conventional unit used for the early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial, and residential applications. Designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers, complete systems may be shut down via the building's fire alarm control panel (FACP) in the event of smoke detection. Output terminals are provided for a remote alarm indicator.

- Two-Wire conventional detector with relay output
- Series 65A sensor
- Operating voltage: 9-33V DC

SL-D2W-N
Ionisation

SL-D2W-P
Photoelectric

RT-3000 Conventional Weatherproof Duct Smoke Detector

The RT-3000 Conventional Weatherproof Duct Smoke Detector is a weathertight NEMA 4X rated corrosion-resistant enclosure. Its extended temperature listings allow for installation of this conventional duct smoke detector in the widest possible range of indoor/outdoor environments. The truly innovative features save time and money during installation, testing and maintenance cycles, significantly reducing the total cost of ownership.

- NEMA 4X rating for use in harsh, corrosive environment
- Stainless steel cover latch for easy access, built-in tether keeps cover close at hand
- Segregated, trade-dedicated terminal blocks
- Operates at temperatures -4°F to 158°F (-20°C to 70°C)

RT-3000-N
Ionisation
(29600-939)

RT-3000-P
Photoelectric
(29600-938)

HS-100 Conventional Special Application Duct Smoke Detector

The HS-100 Conventional Special Application Duct Smoke Detector is designed specifically for applications where our standard external mount duct detectors cannot be used. Application examples include HVAC plenum return systems in commercial rooftop package units, air shafts, between-ceiling plenum spaces, dampers and applications requiring extremely low or no air velocity (≤ 100 ft/min). This detector is not intended for open area protection nor should it be used for early warning detection or replace a regular fire detection system.

- Ionisation listed for air velocity from 0 – 2,000 feet/min
- Photoelectric listed for air velocity from 0 – 3,000 feet/min
- Interconnects with SL-Series, RT-Series traditional-style duct detectors for common shutdown

HS-100-N
Ionisation

HS-100-P
Photoelectric

Series 65A Standard Base

The Series 65A Standard Base has been designed to enable detectors to be fitted without the need of force – particularly useful when fitting to suspended ceilings. All Series 65A bases have a 'one-way-only' fit.

- Two-Wire base
- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains a ground wire terminal
- Contains no electrical parts

45681-200USA
Series 65A Standard Base 4"

45681-220USA
Series 65A Standard Base 6"

Series 65A Standard Relay Base 4"

The Standard Series 65A Relay Base provides one set of volt-free, changeover (form C) contacts that change state when the detector signals an alarm.

- Four-Wire base
- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains a ground wire terminal

45681-255
Series 65A Standard Relay Base 4"

Series 65A Auxiliary Relay Base 4"

The Series 65A Auxiliary Relay Base provides two sets of volt-free changeover contacts to facilitate the switching of a remote LED or other auxiliary device.

- Four-Wire base
- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains a ground wire terminal

45681-256
Series 65A Auxiliary Relay Base 4"

Series 65A End-of-Line Relay Base

The Series 65A End-of-Line (EOL) Relay Base is intended for use with four-wire circuits and features two sets of changeover contacts and a power supervision relay.

- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains a ground wire terminal

45681-257
Series 65A 12V
End-of-Line Relay Base 4"

45681-258
Series 65A 24V
End-of-Line Relay Base 4"

Series 65A Low Profile Base 6"

A low profile mounting base for Series 65A detectors.

- Adaptor bar to fit different back boxes
- Detector locking mechanism
- One-way fit
- Easy to wire
- Contains a ground wire terminal

45681-232
Series 65A Low Profile Base 6"

Series 65A E-Z Fit Base 6"

A low profile mounting base for Series 65A detectors.

- High degree of protection against unauthorised removal

45681-251
Series 65A E-Z Fit Base 6"

Test Equipment & Maintenance

To keep a fire detection system in good working order, it should be subject to a routine maintenance programme in accordance with locally applicable regulations. Over the course of a year, every detector in the system should be functionally tested at least once, using recommended equipment. We offer a range of Apollo test equipment for both conventional and intelligent systems to enable you to do this.

TEST EQUIPMENT & MAINTENANCE RANGE

Find out more information at:
apollo-fire.co.uk/test-equipment

CE

Discovery Programmer

The Discovery Programmer is a portable test and configuration tool for Discovery smoke and heat detectors.

- Look up the date of manufacture
- Check the drift compensation value
- Display and change the operating mode
- Select/de-select LED flash mode
- Tests detectors
- Reads approval codes

53832-030
Discovery Programmer

Flame Sensor Test Unit and Case

The Flame Sensor Test Unit is a tool which is designed to test flame detectors without the need for real flames.

- Mimics the characteristics of real flames

29600-226
Flame Sensor Tester

Equipment

In addition to the main test kits, Apollo provides a range of equipment to assist you in keeping your system in good working order.

DETECTOR INSTALLATION AND REMOVAL

Detector Extract Tool

29600-102
Detector Extract Tool

Extension Pole, 1.13m

29600-103
Extension Pole, 1.13m

Telescopic Pole, 1.26m to 4.5m

29600-104
Telescopic Pole, 1.26m to 4.5m

IN-SITU FUNCTIONAL TESTING OF INDIVIDUAL DETECTORS

SOLO™

Smoke Dispenser Head

29600-100
Smoke Dispenser Head

Aerosol Test Gas

29600-225
Aerosol Test Gas

Heat Detector Test Pole

29600-229
Heat Detector Test Pole (240V)

29600-231
Heat Detector Test Pole (110V)

Cordless Heat Tester Kit

29600-212
Cordless Heat Tester Kit

Cordless Heat Detector Tester

29600-213
Cordless Heat Detector Tester

CO Test Gas

29600-235
CO Test Gas

Detector Duster

29600-449
Detector Duster

Battery Baton

29600-183
Battery Baton

Battery Charger

29600-214
Battery Charger*

TESTIFIRE®

Smoke/Heat Unit

29600-459
Smoke/Heat Unit

Smoke/Heat Kit

29600-460
Smoke/Heat Kit

Smoke/Heat/CO Unit

29600-461
Smoke/Heat/CO Unit

Smoke/Heat/CO Kit

29600-462
Smoke/Heat/CO Kit

Replacement Smoke Capsule

29600-463
6-Pack Replacement Smoke Capsule

29600-464
3-Pack Replacement Smoke Capsule

Replacement CO Capsule

29600-465
6-Pack Replacement CO Capsule

29600-466
3-Pack Replacement CO Capsule

Battery Baton

29600-183
Battery Baton

Battery Charger

29600-214
Battery Charger*

* When ordering, please state if you require an EU lead or UK lead.

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General Conditions of Sale

PP2102/2014/Issue 13

Apollo Fire Detectors Limited ('the Company')
General Conditions of Sale

All contracts of sale by the Company shall be on and subject to these Conditions.
"The Customer" is the person, firm or company set out on the reverse of these conditions.
"The Goods" are the goods of or Services provided by the Company, details of which are set out on the reverse of these Conditions.

1.1 INFORMATION ABOUT GOODS Any description, specification or drawing published by the Company in relation to the Goods shall not form part of any contract of sale by the Company.

1.2 The Customer in assessing whether the goods are reasonably fit for any particular purpose for which it is purchasing them has not relied on the skill or judgement of the Company.

2.1 ORDERS No order shall be binding on the Company unless and until expressly accepted by the Company in writing.

2.2 No order given may be cancelled or amended unless agreed by the Company in writing.

3.1 CONTRACT The Company shall sell and the Customer shall purchase the Goods in accordance with the written order of the Customer accepted by the Company in writing ("the Order") and with these Conditions (together "the Contract").

3.2 The Contract represents the entire understanding and supersedes any previous agreement between the Company and the Customer in relation to their subject matter.

3.3 The Contract shall not in any circumstances whatsoever be or be deemed to be affected by any previous dealings with the Company and any previous terms and/or conditions issued by the Company are superceded.

3.4 Where the Order Acceptance is on terms which vary from those set out in these Conditions, those terms shall prevail, but otherwise these Conditions shall be deemed to be part of the Contract.

4.1 PRICE The Price payable for the Goods shall be the price specified in the Order, provided that the Company may at any time before delivery, without notice, increase the Price.

4.2 The Price is exclusive of Value Added Tax and the Customer shall pay value Added Tax in respect of the Price at the standard rate prevailing at the date of delivery, together with all other taxes, duties or imports arising in connection with the sale.

5.1 PAYMENT Payment of the Price shall be made in pounds sterling at the office of the Company within 30 days from the date of invoice. All payments shall be made in full without deduction in respect of any right of set-off or counter-claim.

5.2 If the Customer fails to make due payment under the Contract, the Company shall be entitled to interest at the rate of 4% above the base rate of National Westminster Bank PLC from time to time on all outstanding sums from the date that payment fell due until payment is received.

5.3 If the Customer fails to make due payment under the Contract the Company shall be entitled to treat the Contract as repudiated by the Customer.

6.1 DELIVERY The Customer shall promptly, on request made at any time by the Company, provide the Company with any information or instruction it may require in order to supply the Goods.

6.2 Normal delivery terms are ex-works, despatch from Company works (where applicable) shall be deemed to be delivered to the Customer unless the Contract states otherwise.

6.3 Confirmed delivery dates are subject to credit being available at the proposed date of despatch. We will contact you if we are unable to ship because your available credit limit has been exceeded.

6.4 Where the Contract provides that delivery is the Company's responsibility:

6.4.1 Any delivery time indicated by the Company is an estimate only and not an essential term of the Contract.

6.4.2 The Company shall deliver the Goods to the agreed delivery address. Delivery shall be deemed to take place when the Goods arrive at the Delivery Address (before unloading).

6.4.3 The Company shall not be liable for any damage to, deterioration in, or partial loss of the Goods in transit if the matter should have been apparent on a reasonable examination on delivery, unless the Company receives written notice thereof from the Customer within 7 days of delivery.

6.4.4 Where the Company has made part delivery of the Goods it will not be taken under any circumstances to have agreed to waive any lien or right of retention on the remainder of the Goods or to give up possession of the whole of the Goods unless expressly so agreed in writing.

6.5 Where Customer has rejected any of the Goods or notified any damage or deterioration under this Condition 6, the Customer shall, if requested to do so by the Company, return the Goods to the Company within 7 days of such request.

7. RISK All risk in the Goods shall pass to the Customer on delivery.

8.1 TITLE - RETENTION OF TITLE CLAUSES Notwithstanding delivery and the passing of risk, property in and title to the Goods shall remain with the Company and shall not pass to the Customer until the Company has received payment of the full price of (a) all Goods the subject of this contract and (b) all other Goods supplied by the Company to the Customer under any contract whatsoever. Payment of the full price shall include, without limitation, the amount of any interest or other sum payable under the terms of this and all other contracts between the Company and the Customer.

8.2 During such time as the property in the Goods remain in the Company the Customer shall store the Goods separately from all other goods and in such a way as clearly to indicate at all times that the said property remains in the Company. The Company's representatives shall be allowed to enter at all reasonable times upon any land or buildings on or in which the Goods may be situated for the purpose of inspecting the way in which the Goods are being kept.

8.3 During such time as the property in the Goods remains in the Company, the Customer in possession of the Goods shall hold the Goods as bailee of the Company and shall have power to deal with the Goods in normal course of its business.

8.4 If the Customer shall sell any of the Goods it shall hold all the proceeds of sale as trustee for the Company and shall (until payment of such proceeds to the Company) place such proceeds in a separate bank account and hold the same to the order of the Company.

9.1 INTELLECTUAL PROPERTY All patent, design, trademark, service mark, copyright and other industrial or intellectual property rights of the Company of whatever nature in respect of the Goods, any of their constituent parts, their packaging or other material supplied with the Goods shall remain the absolute property of and vested in the Company.

9.2 The Customer shall indemnify and keep indemnified the Company against any and all loss, damage, claims costs and expenses whatsoever suffered or incurred by the Company in connection with any infringement of any patent, design, trademark, service mark, copyright or other industrial or intellectual property right of any other person in connection with the Company's use or application in relation to the Goods or possession of any material or information or instruction supplied by the Customer in relation to the Goods.

10.1 WARRANTY The Company warrants that save only as provided in the Conditions the Goods will on delivery correspond with the Company's specification in respect of them current at the time of delivery.

10.2 Provided that any defect in the condition or performance of the Goods is notified to the Company by the Customer within 10 years (5 years for carbon monoxide detectors) from the date of manufacture, the Company shall correct such defect or replace the Goods (at the Company's discretion) subject to the Customer consenting or procuring consent for access to the Goods by the Company's employees or sub-contractors to carry out any work under this clause. This undertaking is given and shall be accepted by the Customer in lieu of any other remedy.

10.3 The Company shall not be liable under clause 10.2 above if:

10.3.1 The Customer makes any further use of the Goods after giving notice in accordance with clause 10.2;

10.3.2 The defect arises because the Customer failed to follow the Company's oral or written instructions as to the installation, use, maintenance or cleaning of the Goods or (if there are none) good trade practice;

10.3.3 The Customer alters or repairs the Goods without the Company's prior written consent;

10.3.4 The defect arises as a result of fair wear and tear, wilful damage, negligence or abnormal storage or working conditions. For example, the Customer will be responsible for replacing parts that are expected to have a limited working life, such as batteries and rubber seals;

10.3.5 The defect arises as a result of electrical or power supply failure;

10.4 Any notice of defect in the condition or performance of the Goods given by the Customer under clause 10.2 shall be made in writing to the Company within a reasonable time of discovery.

10.5 The benefit of the warranty under clause 10.2 is not transferable.

11.1 LIABILITY The implied terms in the Sale of Goods 1979 are excluded in respect of Customer's dealing otherwise than as consumer, except the implied terms about title.

11.2 Save only as provided in these Conditions the Company shall not be liable for any defect in the Goods caused by the manufacture of the Goods in accordance with any material, information or instruction supplied or provided by the Customer. The Customer shall indemnify and keep indemnified the Company against any and all loss, damage, claims, costs and expenses suffered or incurred by the Company in connection with any such defect.

11.3 Save only as provided in these Conditions the Company shall not in any event be liable for any special, indirect or consequential loss. damage, costs or claims including but not limited to loss or damage resulting from negligence and loss of profit or revenue.

11.4 The Company's aggregate liability to the Customer in respect of any and all causes of action arising at any time in connection with the Goods, the Contract or its other subject-matter shall not exceed 125% of the price of the defective goods, which sum the Customer agrees is reasonable.

11.5 These Conditions shall not exclude, restrict or limit any liability the exclusion, restriction or limitation of which is for the time being prohibited by legislation or any right or remedy in respect of any such liability.

11.6 Each of the exclusions, restrictions and limitations of the Company's liability in these Conditions shall be separate and severable from every other such exclusion, restriction or limitation. If a court or competent jurisdiction finds any such exclusions, restrictions and limitations to be unenforcable to any extent the exclusions, restrictions and limitations shall save to such extent remain in full force and effect.

12.1 USE AND SAFETY The Goods are designed only for use in accordance with the Company's operating and maintenance instructions in relation to the Goods at the time of delivery. The Company warns that use, repair or adaptation of the Goods in any other manner may result in damage to the Goods or other property and/or affect the safety of the Goods.

12.2 No undertaking is given by the Company that goods will not infringe the Letters Patent or any other industrial property rights of any third party and the Customer accepts the goods on this understanding and agrees not to pursue any claim against the Company and to hold the Company harmless in respect of any alleged or actual infringement of such third party rights.

12.3 Save only as provided in these Conditions the Company shall not be liable for any loss or damage caused wholly or partly by the fitment to the Goods of any part, accessory or item of equipment which has not been manufactured or approved by the Company or by misuse of the Goods or failure to follow operating or maintenance instructions supplied by the Company. The Customer shall indemnify and keep indemnified the Company against any and all claims whatsoever in respect of any such loss or damage.

13.1 GOODS PURCHASED FOR RESALE In respect of any goods which are purchased by the Customer for resale, the Customer shall not apply its own trade or other marks to the Goods or their packaging without the written consent of the Company.

13.2 In respect of any Goods which are purchased by the Customer for resale, the Customer shall not alter or interfere with the Goods and shall comply with all applicable legislative and other requirements and standards and the Company's instructions in relation to the storage, handling and safety of the Goods. The Customer shall indemnify and keep indemnified the Company against any and all loss, damage, claims, costs and expenses suffered or incurred by the Company arising from any failure by the Customer to comply with this Condition.

14.1 DEFAULT AND TERMINATION If any of the events specified in Condition 14.2 occurs all monies accrued owing under the Contract shall become immediately due and payable and the Company shall be entitled at any time thereafter to terminate the Contract and any other contract between the Company and the Customer by notice and/or to suspend further deliveries of Goods the subject of any or all such contracts.

14.2 The events referred to in clause 14.1 are:

14.2.1 the Customer makes default in or commits a breach of the Contract;

14.2.2 any distress or execution is levied upon the Customer's property or assets;

14.2.3 the Customer makes or offers or proposes to make any arrangement or composition with its creditors, any resolution or petition to wind up the Customer is passed or presented, any petition for an administration order in respect of the Customer is presented, a petition for a bankruptcy order is made against the Customer, or a receiver or manager of the Customer's undertaking, property or assets or any part thereof is appointed; or

14.2.4 the Customer fails to provide any letter of credit, bill of exchange or other security requested by the Company.

15. FORCE MAJEURE Should the Company be prevented from or hindered or delayed in performing any of its obligations under the Contract by reason of strike, lock-out or trade dispute, acts of national or local government or other authority, Act of God, storm, tempest, fire, flood, explosion, accident, theft, civil disturbance, insurrection or war or by any other cause whatsoever beyond the Company's reasonable control then the Contract may be suspended and/or cancelled (whether or not while suspended) by the Company without notice and the Company shall have no liability in relation to any failure by it caused by such prevention, hindrance or delay, or any such delay, suspension or cancellation.

16.1 ANTI-BRIBERY CLAUSE The Customer will:

16.1.1 Comply with all applicable laws, regulations, codes and sanctions relating to anti-bribery and anti-corruption including, but not limited to:

16.1.1.a Local and national laws in the territories in which it operates.

16.1.1.b The UK Bribery Act 2010.

16.1.1.c The US Foreign Corrupt Practices Act 1977.

16.1.1.d The UN Convention Against Corruption.

16.1.2 Comply with the Halma p.l.c. Group Code of Conduct relating to bribery and corruption which may be found on the Halma website (www.halma.com).

16.1.3 Have in place its own policies and procedures to ensure compliance with this Clause.

16.1.4 Ensure that all parties with which it is associated or who are providing goods or services in connection with this Contract (including subcontractors, agents, consultants and other intermediaries) are aware of and comply with the requirements of this Clause.

16.1.5 Maintain complete and accurate records of all transactions and payments related to this Contract and, on reasonable request, disclose details of those transactions and payments to the Company.

16.1.6 On reasonable request confirm in writing to the Company that it has complied with the requirements of this Clause and, if so requested, allow the Company to verify this compliance by way of an audit of its records.

16.1.7 Immediately inform the Company if it suspects or becomes aware of any breach of this Clause by one of its employees, subcontractors, agents, consultants or other intermediaries and provide detailed information about the breach.

16.2 The Customer will indemnify, keep indemnified and hold harmless (on a full indemnity basis) the Company against all costs, expenses and losses that the Company incurs or suffers as a result of any breach by the Customer of any of its obligations under this Clause. This indemnity will not apply to any fine levied on the Company as a result of the Company's criminal liability.

16.3 If the Customer breaches this Clause the Company shall have the right to terminate this Contract without notice and with immediate effect and will be in no way liable to the Customer in respect of such termination for payment of damages or any other form of compensation.

17.1 GENERAL Each of the rights and remedies conferred on the Company by these Conditions shall be in addition and without prejudice to any other right or remedy which the Company may have under these Conditions or otherwise and in particular to any right to payment of all sums due or to become due in respect of the Goods.

17.2 No failure by the Company to enforce any of its rights under the Contract, or delay by the Company in enforcing any such rights, whether or not after knowledge of any breach of the Customer, shall constitute waiver thereof.

17.3 If any of these Conditions shall be held unenforceable, the remaining Conditions shall not be prejudiced thereby and shall continue in full force and effect.

17.4 Save only as provided in these Conditions time shall not be or be deemed to be of the essence of the Contract.

17.5 The Contract shall be personal to the Customer and the Customer shall not assign any of its rights under the Contract without the prior written consent of the Company.

17.6 Any notice under the Contract shall be given by letter or by telex, facsimile transmission or cable confirmed by letter.

17.7 Any reference in these Conditions to any provision of legislation shall be construed as a reference to that provision as amended, re-enacted or extended at the relevant time. Words in the singular include the plural and vice versa. The headings in these Conditions are for convenience only and shall not affect their interpretation.

17.8 The Contract shall governed by and construed in all respects in accordance with English law and the Customer shall submit to the jurisdiction of the Supreme Court of justice in England in respect of any matters which may arise in connection with the Contract.

17.9 The Contract represents the entire understanding between the parties and supersedes any previous agreement between the Company and the Customer in relation to the subject matter.

18.0 The Company is a registered producer under the UK WEEE Regulations WEE/HE0048TZ. Upon the sale of all electrical and electronic equipment (EEE) the Customer agrees to accept the financial obligations for removal, collection, recovery and recycling of the EEE once it becomes waste and any replaced WEEE to the customer.

May 2014

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A HALMA COMPANY

Assessed to ISO 9001:2008
LPCB Cert No. 010

Certificate No. 010
See www.RedBookLive.com

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Certificate number EMS 010

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