

Fire Detection Equipment



Product Catalogue 2014/2015

# Apollo Key Guide

Quick reference key guide

## Applications



Bedrooms



Escape Routes



Dusty Environments



Car Parks & Loading Bays



Medium to Large Buildings



Small to Medium Buildings



Hospitals



Large Hotels



University Campuses



Clean Rooms



Data Centres



Retail



Restaurants



B&Bs/ Guest Houses



Listed Buildings



Churches



Marine



Large Vessels



Hazardous Areas



Offshore Platforms



Refineries

## Product Types



Optical



Heat



Ionising



Carbon Monoxide



Multi-Sensor

## Product Highlights



New Product

## Fire Type



Fast Burning Flaming



Slow Burn Smouldering

## Product Features



Waterproof



Wireless



Reduced False Alarms



Easy Installation



5 Response Modes



Remote Test Feature



# Apollo Product Guide

Quick reference product guide

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bedrooms		●	●				
escape routes			●				
dusty environments				●			
car parks & loading bays			●				
medium-large buildings		●	●				
small-medium buildings				●	●	●	
hospitals		●					
university campuses		●					
retail				●	●		
restaurant				●	●	●	
b&b / guest house						●	
listed buildings							●
churches							●
marine		●		●			
large vessels		●		●			
hazardous areas			●	●			
refineries			●	●			

# 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. Apollo holds in excess of 3000 product approvals worldwide. Our products are stringently tested to international land and marine based standards. The company is quality certified by LPCB to ISO9001:2008 and ISO14001:2004 for our Environment Management System. Apollo's continuous improvement programme ensures that our products will always be designed to meet the ever changing strict criteria set by the worldwide approval bodies.



Need further information? Visit [www.apollo-fire.co.uk/certificates](http://www.apollo-fire.co.uk/certificates)

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This coming year brings an exciting new chapter for Apollo Fire Detectors. Not only does it see us celebrate 35 years of innovative, reliable and world leading products, this year we are also introducing new technology to the fire detection industry.

Drawing on the expertise and in-house state of the art equipment, we have been working hard to develop and design the next evolution in fire detection capabilities. Building on the established XP95 and Discovery ranges, we are delighted to announce the introduction of Soteria™ and our new enhanced open digital protocol - aptly named CoreProtocol. For more information, please see page 13.

We look forward to working with you and introducing new products to the marketplace over the coming milestone year.

Warren Rees  
Managing Director  
Apollo EMEA

-  **UK MANUFACTURER**  
AN ESTABLISHED UK MANUFACTURER, CORE MANUFACTURING FACILITY IN HAVANT, HAMPSHIRE
-  **LIFETIME GUARANTEE**  
THE GUARANTEE SUPPORTS OUR RECOMMENDED WORKING LIFE OF THE PRODUCT
-  **LOCALISED CUSTOMER SERVICE**  
REGIONAL OFFICES IN UK, GERMANY, AMERICA, INDIA AND CHINA OFFERING AFTER SALES SUPPORT WORLDWIDE
-  **FREE TRAINING COURSES**  
OFFER A SERIES OF ONE-DAY TRAINING COURSES INCLUDING CPD TRAINING SEMINARS
-  **INTERNATIONAL APPROVALS**  
APOLLO HOLDS IN EXCESS OF 3,000 PRODUCT APPROVALS WORLDWIDE

Visit the Apollo website for detailed information on our range of fire detection products.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

# Welcome to the 2014-15 Apollo Catalogue

In addition to detailed product listings you will also find information on the additional services we offer, case study examples of the products in situ and an easy-reference product index.

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View our case studies for examples of Apollo products in situ



By Appointment to  
Her Majesty The Queen  
Manufacturers of Fire Detection & Alarm Products  
Apollo Fire Detectors Limited  
Hampshire

Information in this catalogue is given in good faith, but Apollo Fire Detectors cannot be held responsible for any omissions or errors. The company reserves the right to change specifications of products at any time without prior notice.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



# An introduction to Apollo

## Why choose Apollo?

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

## Partner of choice

Apollo Fire Detectors Ltd has specialised in the design and manufacturing of high quality fire detection products since 1980. In that time, the company has broadened its capability from a straightforward focus on conventional fire detectors to include the manufacture of sophisticated analogue addressable detectors and interfaces for monitoring and controlling equipment in fire protection systems.

Apollo applies the most modern production techniques and has 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 3000 international approvals, regional offices in the UK, America, China, India and Germany along with direct trade into more than 100 countries, Apollo has cemented its 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.

### World-class

Apollo have regional offices in the United Kingdom, America, China, India and Germany and trade directly into more than 100 countries.



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## World-class facilities

Apollo's 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, Apollo 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.

### Anechoic chamber

The chamber absorbs ambient noise for accurate sound testing.



## Product Lifetime Guarantee

Our products save lives and protect property around the globe 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, 5 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.

The Product Lifetime Guarantee is subject to terms and conditions. For further information, please refer to Apollo's General Conditions of Sale which can be found on pages 184 - 185 or on the Apollo website.

Outside the United Kingdom this is known as a 10 Year Product Guarantee.

### UK Sales:



### International Sales:





# Additional services

## Servicing & Disposal SimSystem

Apollo offers a service facility for Apollo detectors and ancillary products, such as Interfaces and Manual Call Points. This means that older models of Apollo detectors can be serviced (subject to them 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 its 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](mailto:returns@apollo-fire.com) or [marketing@apollo-fire.com](mailto:marketing@apollo-fire.com) for a copy of the Maintenance brochure.

## 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 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](http://www.apollo-fire.co.uk/loop-calc)

SimSystem (29600-164) is a tool for simulating loops of detectors and Interfaces in order to demonstrate a system and prove the design without having to connect actual products to a 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 for direct connection of BMS (Building Management System) to a fire control panel supporting the 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](http://www.open-connect.co.uk)



Part numbers are available on request.

### ALM's

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.

Visit the Apollo website for detailed information on our range of fire detection products.

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## Specifiers' Guide

Apollo has created a guide as an aid for use by all who have responsibility for specifying or designing systems incorporating automatic fire detectors. The guide is to assist in design and specification of fire systems.

Please see the Apollo website to obtain your copy of the guide: [www.apollo-fire.co.uk/specifiersguide](http://www.apollo-fire.co.uk/specifiersguide)



## Training

Apollo offers a series of one-day training courses for its customers. The courses cover the following modules:

### Course A

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

### Course B

- Carbon Monoxide (CO) Fire Detection
- AV Alarm Devices
- AlarmSense
- Orbis
- OpenConnect

### Course C

- XPander – for commissioning and installation engineers

### Course D

- Service, Test and Maintenance

In addition to the standard training courses, Apollo can offer tailor-made courses if required. The majority of courses are held at Apollo's 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](http://www.apollo-fire.co.uk/training)

## CPD Seminars

Apollo now offers training seminars that will count towards your Continuing Professional Development. These free sessions on fire industry-related topics allow you to stay up to date.

**False Alarm Reduction in Automatic Fire Detection Systems – the Manufacturer's Contribution**

**Independent Certification / EU Construction Products Directive for Fire Products**

**Life Cycle Costs in Fire Detection Systems**

To find out more email [cpd@apollo-fire.com](mailto:cpd@apollo-fire.com) or visit [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)



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INTRODUCING

SOTERIA™  
DETECTION > DEFINED

Soteria™ is the next step in the evolution of Apollo's range of analogue addressable fire detectors - adding another level of sophistication in fire detection.

Building on the established XP95 and Discovery ranges, Soteria™ offers advances in detection, reliability and false alarm rejection to deliver a new level of fire detection capability.

SOTERIA™

Key features:

- > IMPROVED DETECTION
- > IMPROVED RELIABILITY
- > REDUCED FALSE ALARMS
- > BACKWARDS COMPATIBLE
- > FASTER INSTALLATION
- > IMPROVED STYLING

A new, enhanced open digital protocol – CoreProtocol™ – has been developed to support Soteria™ and future analogue addressable ranges.

Building upon the established XP95 and Discovery protocols, CoreProtocol™ is backwards compatible.

CoreProtocol also offers a significant increase in the number of devices now available on the loop.

This allows installers to enhance systems and combine technologies, providing a more integrated solution.

coreprotocol

Key features:

- > MORE ADDRESSES
- > BACKWARDS COMPATIBLE
- > INCREASED LOOP-POWER
- > GREATER FLEXIBILITY
- > FUTURE-PROOF
- > ADVANCED ALARM MANAGEMENT

For more information please visit:  
[apollo-fire.co.uk/soteria](http://apollo-fire.co.uk/soteria)





Discovery and Discovery Marine are a range of high-specification, analogue addressable fire detectors offering reliable detection and false alarm management by a combination of EN54 approved operating modes and sophisticated algorithms. Discovery has a 'distributed intelligence system' where decisions are made in the detector head as well as at the control panel.







The Discovery range also offers Marine, Offshore and SIL Solutions, plus UL, ULC and FM.



#### Key features:

- Five EN54 approved operating modes
- 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 control panel processor fault
- 360° LED visibility in alarm
- Compatible with XP95 systems
- Day/night switching for increased flexibility

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Find out more about the Discovery range at [www.apollo-fire.co.uk/discovery](http://www.apollo-fire.co.uk/discovery)



5,500 Discovery products can be found in London Heathrow's Sofitel hotel.

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The XP95 range of analogue addressable fire detectors is advanced in design, improved in performance and has unique features that benefit the installer and end user.







The XP95 range also offers Intrinsically Safe Detectors and XP95A for the UL, ULC and FM markets.



#### Key features:

- Alarm flag for fast alarm reporting
- Alarm address for fast location of alarm
- XPERT card addressing
- Electronics-free base
- Easy installation
- Elegant design
- Insect resistant
- Analogue value report
- Synchronisation of all loop-powered notification devices
- Advanced error check

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Find out more about the XP95 range at [www.apollo-fire.co.uk/xp95](http://www.apollo-fire.co.uk/xp95)





# orbis®








Orbis is a range of conventional detectors which have been developed with sophisticated technology previously only found in analogue addressable detectors.

Key features of Orbis include:

- Wide operating voltage of 8.5-33 VDC
- Wide operating and storage temperature -40°C to +70°C
- Electrically compatible with Series 60 and Series 65
- 360° visibility of LEDs
- Automatic drift compensation with DirtAlert® warning
- SensAlert® which uses a flashing LED to indicate that the detector is not operating correctly
- Algorithms for transient rejection
- Attractive and compact design
- Orbis Marine and Orbis IS detectors are also available



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Find out more about the Orbis range at [www.apollo-fire.co.uk/orbis](http://www.apollo-fire.co.uk/orbis)

# series65®

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.

Key features of Series 65 include:

- Wide operating voltage of 9-33 VDC
- 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
- Series 65A range also available approved for the UL/ULC/FM



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Find out more about the Series 65 range at [www.apollo-fire.co.uk/series65](http://www.apollo-fire.co.uk/series65)

Apollo conventional detectors can be found in retail outlets around the globe, including the Morley City Shopping Centre in Perth, Australia.





Two-wire AlarmSense has been developed to make the design and installation of a fire detection and alarm system easier and more economic 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 HMOs.

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







XPander is a system in which individual detectors, call points, alarm devices and interfaces communicate with the XP95 loop by radio signals. An interface is connected to the loop in the same way as any other interface, such as an input/output unit.

Key features of XPander include:

- Easy to install
- XPERT card addressing
- Self-monitoring
- Proven technology
- No special control panel needed
- 868MHz radio signalling
- Up to 31 devices per interface
- Up to 5 interfaces per loop







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Find out more about the AlarmSense range at [www.apollo-fire.co.uk/alarmsense](http://www.apollo-fire.co.uk/alarmsense)

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Find out more about the XPander range at [www.apollo-fire.co.uk/xpander](http://www.apollo-fire.co.uk/xpander)

# Analogue Addressable

Apollo offers two ranges of analogue addressable systems – Discovery and XP95. Discovery is Apollo's high-specification range and offers the following advantages over XP95:

- Five operating modes, each EN54 approved to provide the widest possible fire detection solution
- Automatic drift compensation where the detector automatically compensates for the build up of contamination, maintaining a stable alarm threshold
- Access to a more advanced range of features in Discovery audio visual equipment



Apollo devices can be found in The Savoy Hotel and Royal London Hospital (London), Grand Hotel Reykjavik (Iceland), and Mater Dei Hospital (Malta).

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



There are two types of analogue addressable system – 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 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.

Apollo has always used an open, digital 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 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.







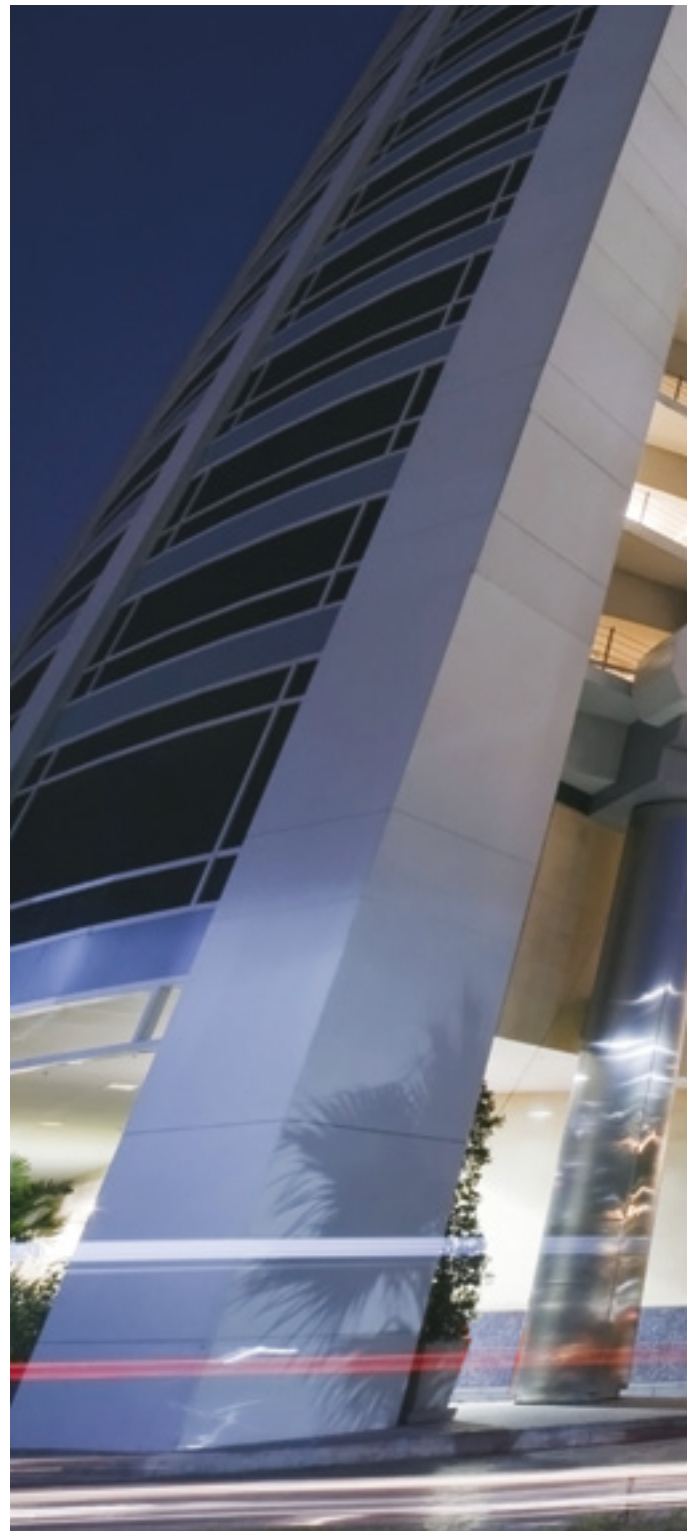
Discovery is a range of high specification, analogue addressable fire detectors. Discovery detectors offer reliable detection and false alarm management by a combination of EN54 approved operating modes and sophisticated algorithms. Discovery has a 'distributed intelligence' system where decisions are made in the detector head as well as the 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 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 EN54 in all response modes. Mode One will give a higher sensitivity to fire than Mode Five.

Designed for the 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.

**Key features of Discovery include:**

- Five operating modes approved and certified to CPD and EN54
- 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 control panel processor fault
- 360° LED visibility in alarm
- Compatible with XP95 systems
- Insect resistant



Find out more about the Discovery range at [www.apollo-fire.co.uk/discovery](http://www.apollo-fire.co.uk/discovery)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### 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 for 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 for 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



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 give off 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 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

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 for warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure
- Five response modes
- Remote test feature

**58000-400** Discovery Heat 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 cards are supplied with all bases.

- XPERT 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 addressing
- Locking feature to prevent unauthorised detector removal

**45681-209** Intelligent Deep Base

### 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

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

Isolator Base



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

**45681-211** Isolator 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

MiniDisc Remote Indicator



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

Blank XPERT Card



A universal address card supplied with all bases. Using a coding guide, 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 Card

Pre-Addressed XPERT Cards



Pre-Addressed XPERT Cards are supplied with pips already removed.

- Saves time and increases accuracy during commissioning
- Uses patented, proven technology
- Address remains the same, no matter how often detectors are replaced
- Complete set (1-126)

**45682-127** Pre-Addressed XPERT Cards



Have you seen the latest technology solutions from Apollo, including OpenConnect? See page 10 for more information or visit [www.open-connect.co.uk](http://www.open-connect.co.uk)

Please check the Apollo website on a regular basis for up-to-date approvals information.

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 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

Discovery Open-Area  
Sounder Visual Indicator:  
**58000-005** Red lens  
**58000-007** White lens  
**29650-001** Magnetic Wand

Discovery  
Sounder Visual  
Indicator Base



The Discovery Sounder Visual Indicator Base uses the Discovery Protocol and is appropriate for use with all the Discovery detector heads. 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 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 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

Discovery Open-Area  
Voice Sounder:  
**58000-010** Red  
**58000-020** White  
Discovery Open-Area Voice  
Sounder Visual Indicator:  
**58000-030** Red  
**58000-040** White

Discovery smoke detectors and Manual Call Points were installed in the US Air Force Base in Southern England, find out more about this case study on page 172.



Apollo  
Discovery  
Manual Call Point



Apollo's Discovery 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.

- EN54-11 approved (EN54-17 approved for Isolator version)
- E-Z fit connectors
- Front facing addressing without the need to detach the backbox
- A unique, ergonomically designed key for resetting and front cover removal
- Backward compatibility and retro-fit
- Resettable element

**58200-910**  
Apollo Discovery Manual Call Point

**58200-908**  
Apollo Discovery Manual Call Point with Isolator

Apollo  
Waterproof  
Manual Call Point



Apollo's 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.

- IP67 rated (red version only)
- EN54-11 approved (EN54-17 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 †

Apollo Discovery  
Manual Call Point  
(Non-Standard)



Apollo's Discovery Non-Standard Manual Call Points 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 and Discovery systems.

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

Apollo Discovery Manual Call Point (non-standard):

**58200-926** White †

**58200-927** Yellow †

**58200-928** Blue †

**58200-929** Green †

**58200-930** Orange †

† Non-standard variants of the Manual Call Point are not EN54-11 compliant and therefore cannot be used to signal fire.

Please check the Apollo website on a regular basis for up-to-date approvals information.

# 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.

For more information on each interface see page 89.

## 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 and has 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 control panel.

Apollo has always 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 protocol has a high immunity from corruption and is therefore often preferred in a large system where life is critical. XP95 is suitable for medium to large applications with simple installation requirements.

**Key features of XP95 include:**

- Alarm flag for fast alarm reporting
- Alarm address for fast location of alarm
- XPERT card addressing
- Electronics-free base
- Easy installation
- Elegant design
- Insect resistant



Find out more about the XP95 range at [www.apollo-fire.co.uk/xp95](http://www.apollo-fire.co.uk/xp95)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### 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 for bedrooms and escape routes
- Unaffected by wind or atmospheric pressure

#### 55000-600

XP95 Optical Smoke Detector

#### 55000-660

XP95 Optical Smoke Detector (black)

#### 55000-620

XP95 Optical 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 for environments such as hotel bedrooms
- Unaffected by wind or atmospheric pressure

#### 55000-885

XP95 Multisensor Detector

### 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

#### 55000-560

XP95 Ionisation Smoke Detector (black)

#### 55000-520

XP95 Ionisation Smoke Detector (VdS)

### 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 for warehouses, loading bays and carparks
- 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

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 cards are supplied with all 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)

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.

- Only accepts isolators

**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 (uses 45681-211 Isolator 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 to switching up to 30V at 1A

**45681-242** Intelligent Low Power Relay Base

### 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

**45681-209**  
Intelligent Deep 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

### MiniDisc Remote Indicator



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

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

**53832-070**  
MiniDisc Remote Indicator

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



Blank  
XPERT  
Card



A universal address card supplied with all bases. Using a coding guide, 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 Card

Pre-Addressed  
XPERT  
Cards



Pre-Addressed XPERT Cards are supplied with pips already removed.

- Saves time and increases accuracy during commissioning
- Uses patented, proven technology
- Address remains the same, no matter how often detectors are replaced
- Complete set (1-126)

**45682-127**  
Pre-Addressed XPERT  
Cards 1-126

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)

Multi-Tone  
Open-Area Sounder:  
**55000-278** Red  
**55000-279** White  
Weatherproof Multi-Tone  
Open-Area Sounder:  
**55000-274** Red  
**55000-275** 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** Red  
Intelligent Open-Area  
Sounder  
**55000-002** White  
Intelligent Open-Area  
Sounder



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

Apollo  
XP95 Manual  
Call Point



Apollo's XP95 Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. When activated, the manual call point interrupts the polling cycle for a fast response and has a combined LED indicator and front reset mechanism allowing for a quick and simple reset.

- EN54-11 approved (EN54-17 approved for Isolator version)
- E-Z fit connectors
- Front facing addressing without the need to detach the backbox
- A unique, ergonomically designed key for resetting and front cover removal
- Backward compatibility and retro-fit
- Resettable element

**55200-905** Apollo XP95 Manual Call Point  
**55200-908** Apollo XP95 Manual Call Point with Isolator

Apollo  
Waterproof  
Manual Call Point



Apollo's 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.

- IP67 rated (Red version only)
- EN54-11 approved (EN54-17 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 †

Apollo  
Manual Call Point  
(Non-Standard)



Apollo's Non-Standard Manual Call Points 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 and Discovery systems.

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

Apollo Manual Call Point (non-standard):  
**58200-926** White †  
**58200-927** Yellow †  
**58200-928** Blue †  
**58200-929** Green †  
**58200-930** Orange †

† Non-standard variants of the Manual Call Point are not EN54-11 compliant and therefore cannot be used to signal fire.

Please check the Apollo website on a regular basis for up-to-date approvals information.

# 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.

For more information on each interface see page 89.

## 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 control panel by changing from a high to low impedance. The panel detects this impedance change by current monitoring and identifies the zone.



Apollo Conventional detectors can be found in The Adelphi Hotel (UK), City Hospital (Slovenia) and City Lodges Hotels (South Africa).

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

**orbis®****series65®**  
9-33V

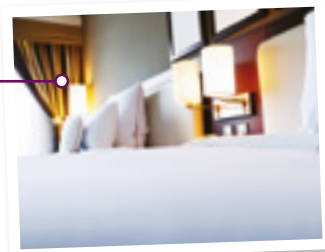
Orbis and Series 65 Conventional detectors are recommended for a number of applications including:

- 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



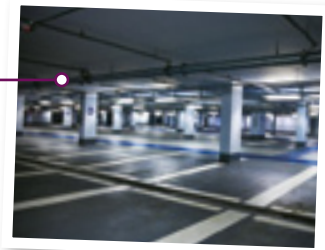
### Hotel rooms

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



### Car parks

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



### 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.





# 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

#### 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



Find out more about the Orbis range at [www.apollo-fire.co.uk/orbis](http://www.apollo-fire.co.uk/orbis)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### 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 124.**

### 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
- Is 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 which allows 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



## 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 protection 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

## Apollo Conventional Manual Call Point



Apollo's Conventional Manual Call Points have been designed to work on a conventional fire detection zones and comply with EN54-11. Available in both indoor and outdoor variants, Apollo also offers a yellow variant suitable for alternative applications.

- Resettable element for testing
- Selectable 470Ω or 680Ω resistors
- Easy access, front reset mechanism
- EN54-11 Approved (red version only)

**55200-001**

Apollo Conventional Manual Call Point Red

**55200-002**

Apollo Conventional Manual Call Point Yellow †

**55200-003**

Apollo Conventional Waterproof Manual Call Point Red

**55200-004**

Apollo Conventional Waterproof Manual Call Point Yellow †

## Apollo Dual Switch Manual Call Point (Non-Standard)



Apollo's Dual Switch Manual Call Point provides double pole change-over contacts suitable for applications that require multiple switching from a single activation point.

- Resettable element for testing
- Easy access, front reset mechanism
- 170° viewable LED

**55200-011**

Apollo Dual Switch Manual Call Point †



**For our full range of  
Manual Call Points see page 98.**

† Non-standard variants of the Manual Call Point are not EN54-11 compliant and therefore cannot be used to signal fire.





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 9-33V, the 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

**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



Find out more about the Series 65 range at [www.apollo-fire.co.uk/series65](http://www.apollo-fire.co.uk/series65)

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For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

## 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 but 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 for 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 switch

### 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 switch

## 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 switch

\* Does not have VdS approval.

Please check the Apollo website on a regular basis for up-to-date approvals information.

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### 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
- 29600-095**  
1.5mm Hexagonal Screwdriver

### 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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MiniDisc  
Remote  
Indicator



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

Apollo  
Conventional  
Manual Call Point



The Apollo Conventional Manual Call Points have been designed to work on a conventional fire detection zone and comply with EN54-11. Available in both indoor and outdoor variants, Apollo also offers a yellow variant suitable for alternative applications.

- Resettable element for testing
- Selectable 470Ω or 680Ω resistors
- Easy access, front reset mechanism
- EN54-11 Approved (red version only)

**55200-001**  
Apollo Conventional Manual Call Point Red  
**55200-002**  
Apollo Conventional Manual Call Point Yellow †  
**55200-003**  
Apollo Conventional Waterproof Manual Call Point Red  
**55200-004**  
Apollo Conventional Waterproof Manual Call Point Yellow †

Apollo Dual Switch  
Manual Call Point  
(Non-Standard)



The Apollo Dual Switch Manual Call Point provides double pole change-over contacts suitable for applications that require multiple switching from a single activation point.

- Resettable element for testing
- Easy access, front reset mechanism
- 170° viewable LED

**55200-011**  
Apollo Dual Switch Manual Call Point †



For our full range of  
Manual Call Points see page 98.

† Non-standard variants of the Manual Call Point are not EN54-11 compliant and therefore cannot be used to signal fire.

# Two-Wire Technology

In two-wire conventional systems, fire detection and alarm products are connected to the same pair of supply wires, making installation quicker, less expensive and more flexible than traditional four-wire conventional systems. Two-wire systems are particularly well suited for small to medium sized buildings.

## 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



Apollo's Two-Wire detection and alarm products offer flexible system designs and a reduction in wiring and installation costs.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





Two-Wire AlarmSense® has been developed to make the design and installation of a fire detection and alarm system easier and more economic 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 enable compliance with BS5839-1 and BS5839-6 in addition to EN54 standards. AlarmSense is also compliant with the Construction Products Directive (CPD).



Flats and bedsits

Reduced wiring costs, quick and simple installation and false alarm reduction with 'non-priority' signalling make 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 control panel if a detector has been removed without authorisation.



## 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 for 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 also has the ability to monitor and discard transient sources of smoke.

- Responds well to slow-burning, smouldering fires
- Well suited for 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 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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AlarmSense  
Base



AlarmSense detectors can only be mounted into the 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 protection 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



For information on AlarmSense Compatible Control Panels, go to [www.apollo-fire.co.uk/alarmsensepanels](http://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

Please check the Apollo website on a regular basis for up-to-date approvals information.

### 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  
**45681-295** Red cap  
**45681-294** White cap

### 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  
**45681-295** Red cap  
**45681-294** White cap

### Apollo 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 element for testing
- Easy access, front reset mechanism
- Backward compatibility and retro-fit
- EN54-11 Approved

**55200-894**  
 Apollo AlarmSense  
 Manual Call Point Red

# 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, heritage sites, palaces, annexes etc. – this is where wireless systems provide the ideal solution.



Apollo devices can be found in The Royal Albert Hall (London),  
Marianske Lazne Theatre (Czech Republic) and Guildhall (Portsmouth).

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



## Commercial



It is sometimes very difficult 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 discrete buildings which need to be connected to a central control panel but where wiring might present problems.



## Residential

Essential for the safety of your home or small business, the Apollo Wireless Carbon Monoxide Alarm and Wireless Smoke-Heat Alarm are battery powered detectors with an integrated audio alarm. The devices are designed to wirelessly communicate with a dedicated control panel or be installed independently. With an innovative design, the detectors can integrate with some of the most advanced security and home automation technology on the market.



XPander is a range of wireless products in which 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 control panel in the same way as any hard wired device. The XPander range benefits from the patented XPERT 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.

**Key features of XPander include:**

- Easy to install
- XPERT card addressing
- Self-monitoring
- Proven technology
- No special control panel needed
- 868MHz radio signalling
- Up to 31 devices per interface
- Up to 5 interfaces per loop
- All detectors within the XPander range are sold with mounting bases



Find out more about the XPander range at [www.apollo-fire.co.uk/xpander](http://www.apollo-fire.co.uk/xpander)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### 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 Multisensor Detector and Mounting Base



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

- Wireless
- Multisensor technology reduces false alarms
- Increased sensitivity to flaming fires
- XPERT card addressing system
- Five year battery life using standard AA alkaline batteries

#### **XPA-CB-13032-APO**

XPander Multisensor 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**

Rate-of-Rise (A1R) 57°C

#### **XPA-CB-11171-APO**

Static (CS) 90°C

Find out more in our case study on the Oxo Tower, London on page 143.



Please check the Apollo website on a regular basis for up-to-date approvals information.

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### 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 control panel.

- Connects up to 31 XPander devices to an Apollo Addressable loop
- Translates radio signals from XPander detectors to the 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 BS5839:1.

- Indicates the suitability of proposed device location

**XPA-TE-14075-APO**

XPander Diversity Survey Kit

## XPander XPert Cards



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

XPander Blank XPert Card (white)

### 29600-399

XPander Blank 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 (clear) and Sounder Base (white)

## XPander Manual Call Point



The XPander Manual Call Point is compliant with EN54:11. It is wireless and is powered by two independent packs of three AA alkaline batteries with a typical five year life.

- Wireless
- XPert 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 11 for more information.**

Please check the Apollo website on a regular basis for up-to-date approvals information.

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## XPander Combined Sounder and Detector



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

- Wireless
- Available with a choice of XPander detectors
- Bi-directional (monitored) radio platform
- A choice of 4 tone pairs
- Certified to EN54-25

### **XPA-CB-14016-APO**

XPander Combined Sounder and Optical Smoke Detector

### **XPA-CB-14017-APO**

XPander Combined Sounder and Heat Detector (Class A1R)

### **XPA-CB-14018-APO**

XPander Combined Sounder and Heat Detector (Class CS)

### **XPA-CB-14019-APO**

XPander Combined Sounder and Multisensor Detector

## XPander Combined Sounder Visual Indicator and Detector



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

- Wireless
- Available with a choice of XPander detectors
- Bi-directional (monitored) radio platform
- A choice of 4 tone pairs
- Certified to EN54-25

### **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 (Class A1R)

### **XPA-CB-14022-APO**

XPander Combined Sounder Visual Indicator (red) and Heat Detector (Class CS)

### **XPA-CB-14023-APO**

XPander Combined Sounder Visual Indicator (red) and Multisensor Detector

### **XPA-CB-14024-APO**

XPander Combined Sounder Visual Indicator (clear) and Optical Smoke Detector

### **XPA-CB-14025-APO**

XPander Combined Sounder Visual Indicator (clear) and Heat Detector (Class A1R)

### **XPA-CB-14026-APO**

XPander Combined Sounder Visual Indicator (clear) and Heat Detector (Class CS)

### **XPA-CB-14027-APO**

XPander Combined Sounder Visual Indicator (clear) and Multisensor Detector

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 (clear) and Detector Base





# Residential and Light Commercial Wireless Detection

Security and Home Automation sector OEM partners are now offering the reliable, dependable advantage of Apollo life safety devices as part of a wireless product suite. Battery powered combination smoke-heat alarms and carbon monoxide alarms are expertly coupled with wireless transmitters to integrate with the most advanced security and home automation technology on the market today.

Beyond the advantage of Apollo's sleek innovative design, the unique smoke-heat alarm benefits from a separate smoke, heat and freeze feature which enables the device to detect one, two or all three. The carbon monoxide alarm's hush button feature and condition status communication to the control panel are as highly-regarded as its overall ease of installation.

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

## Wireless Carbon Monoxide Alarm



The Wireless Carbon Monoxide Alarm is a battery powered detector intended for use with a compatible wireless control panel. With a sleek and innovative design the detector can be mounted to any ceiling without being obtrusive to your home.

- ETL Listed
- Hush button function
- Tri colour status indicator
- Tamper protected
- Can be controlled remotely
- Built-in 85 dBA sounder

## Wireless Smoke – Heat Alarm



The Wireless Smoke-Heat Alarm is a battery powered, radio linked smoke/heat detector intended for use with a compatible wireless control panel. The combination of a smoke alarm with a temperature sensor improves response time for both flaming and smouldering fires as well as reduces false alarms from certain nuisances such as cooking fumes.

- ETL Listed & BSI Listed
- Hush button function
- Tri colour status indicator
- Tamper protected
- Can be controlled remotely
- Built-in 85 dBA sounder



For more information on these products contact Apollo +44 (0) 2392 492 412

# Specialist Detectors

Apollo offer 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.



Apollo offer an extensive range of Specialist Detectors suitable for a wide variety of applications.

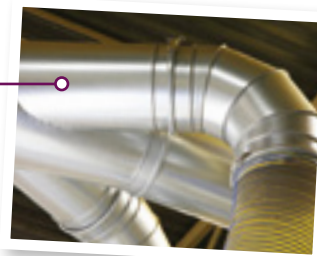
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There are many important factors to consider when deciding which specialist detector to select, if you have specialist needs for fire detection please contact our Product Support Department, details of which can be found on the Apollo website.

### 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 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 compliment 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 EN54-20.

**Have you seen the latest technology solutions from Apollo, including OpenConnect?  
See page 10 for more information or visit [www.open-connect.co.uk](http://www.open-connect.co.uk)**

Please check the Apollo website on a regular basis for up-to-date approvals information.

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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 compliment 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.

- EN54-20 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 failsafe 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:

- IR<sup>2</sup>: High immunity to false sources (indoor areas)
- IR<sup>3</sup>: Excellent immunity to false sources (indoor or outdoor areas)
- UV/IR<sup>2</sup>: Highest immunity to false sources (indoor or outdoor areas)

UV flame detectors are generally used in engine rooms, factories 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 EN54-10.



Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### Intelligent IR<sup>2</sup> Flame Detector



The Intelligent IR<sup>2</sup> Flame Detector is designed for harsh environments in indoor applications. The detector has two sensors which respond to different IR wavelengths to discriminate 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 IR<sup>2</sup>  
Flame Detector

### Intelligent IR<sup>3</sup> Flame Detector



The Intelligent IR<sup>3</sup> 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 IR<sup>3</sup>  
Flame Detector

### Intelligent Flameproof IR<sup>2</sup> Flame Detector



The Intelligent Flameproof IR<sup>2</sup> Flame Detector is designed for hazardous environments in indoor applications. The detector has two sensors which respond to different IR wavelengths to discriminate 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
- ATEX & IECEx certified:  
II 2GD Ex d IIC T4 Gb  
Ex tb IIIC T135°C Db IP66  
A21 [Zones 1, 21, 2 and 22]

**55000-295**  
Intelligent Flameproof IR<sup>2</sup>  
Flame Detector

### Stainless Steel Intelligent IR3 Flame Detector



The Stainless Steel Intelligent IR<sup>3</sup> 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 elading XP95 or Discovery protocol
- Quick and easy stainless steel 2 axis adjustable mounting bracket

**55000-034**  
Stainless Steel Intelligent  
IR<sup>3</sup> Flame Detector

### Intelligent Flameproof IR<sup>3</sup> Flame Detector



The Intelligent Flameproof IR<sup>3</sup> 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
- ATEX & IECEx certified:  
II 2GD Ex d IIC T4 Gb  
Ex tb IIIC T135°C Db IP66 A21 [Zones 1, 21, 2 and 22]

#### 55000-021

Intelligent Flameproof IR<sup>3</sup>  
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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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Flameproof (Exd)  
UV/IR<sup>2</sup>  
Flame Detector



The Flameproof UV/IR<sup>2</sup> 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 EN50014, EN50018 and EN50281.

- ATEX certified: II 2 G D
- CENELEC/IEC certified: EEx d – IIC T6- [Zones 1, 21, 2 and 22]
- Class 1 sensitivity to EN54-10 detects 0.1m<sup>2</sup> 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/IR<sup>2</sup> Flame Detector

Flameproof (Exd)  
IR<sup>2</sup>  
Flame Detector



The Flameproof IR<sup>2</sup> 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 EN60079-0, EN60079-1 and EN61241-1.

- 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 EN54-10 detects 0.1m<sup>2</sup> 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) IR<sup>2</sup> Flame Detector

Flameproof (Exd)  
IR<sup>3</sup>  
Flame Detector



The Flameproof IR<sup>3</sup> 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 EN60079-0, EN60079-1 and EN61241-1.

- 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 EN54-10 detects 0.1m<sup>2</sup> 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) IR<sup>3</sup> Flame Detector

### IS IR<sup>3</sup> Flame Detector



The IS IR<sup>3</sup> 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 EN50014, EN50020 and EN50284. 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 EN54-10 detects 0.1m<sup>2</sup> 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** IS IR<sup>3</sup> Flame Detector

### UV/IR<sup>2</sup> Flame Detector



The combination of UV and IR<sup>2</sup> 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 EN54-10 detects 0.1m<sup>2</sup> 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/IR<sup>2</sup> Flame Detector

### IR<sup>2</sup> and IR<sup>3</sup> Flame Detectors



The IR<sup>2</sup> and IR<sup>3</sup> 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 EN54-10 detects 0.1m<sup>2</sup> 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** IR<sup>2</sup> Flame Detector

**55000-019** IR<sup>3</sup> Flame Detector

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

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 Dual IR Flame Detector



The Intelligent Base Mounted UV Dual IR 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 Dual IR Flame Detector  
**29600-458**  
Base Mounted Flame Detector Bracket\*

Intelligent Base Mounted Triple IR Flame Detector



The Intelligent Base Mounted Triple IR 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 Triple IR 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 1500m<sup>2</sup> (BS5832), which is beyond that of traditional point detectors. Beams are therefore ideal for protecting areas such as warehouses, theatres and sports centres.

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

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.



Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



### Auto-Aligning Beam Detector with laser alignment



The high performance Auto-Aligning Beam Detector comprises 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
- IP54 rated
- Use XP95 Switch Monitor to interface
- 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)

### Auto-Aligning Beam Detector



The Auto-Aligning Beam Detector includes a ground level controller, a detector head with auto-aligning feature and one prism with an operating range of 5-40m.

- Ground level controller
- Auto compensates for building movement
- Current consumption 3.5mA
- IP65 rated
- Use XP95 Switch Monitor to interface to an addressable loop

#### **29600-350**

Auto-Aligning Beam Detector 5-40m

#### **29600-351**

Extension Kit 40-80m

#### **29600-352**

Extension Kit 80-100m

#### **29600-353**

Adaptor Plate

### 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 Discovery and XP95 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



**For the Mini Switch Monitor  
see page 97.**

### 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

#### **29600-930**

F3K Single Heads Set EN Boxed (additional heads)

#### **29600-931**

FIRERAY3000 Adjustment Bracket\*

### 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



**Apollo offer a series of one day training courses. See page 11 for more information.**

\*Adjustment bracket offers up to 180 degrees movement in both planes and a full 360-degree rotation. It also fits 269650-069 and 29650-070 heads.

Please check the Apollo website on a regular basis for up-to-date approvals information.

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# Audio Visual

Apollo offer 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 their range of conventional and intelligent detectors.





### 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
- EN54-3 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 any Discovery or XP95 system.

- For use with XP95 and Discovery systems
- 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
- EN54-3 Certified

#### **55000-001**

Intelligent Open-Area Sounder (red)

#### **55000-002**

Intelligent Open-Area Sounder (white)

### 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 any Discovery or XP95 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)
- EN54-3 Certified

#### **55000-274**

Multi-Tone Weatherproof Open-Area Sounder (red)

#### **55000-275**

Multi-Tone Weatherproof Open-Area Sounder (white)

Please check the Apollo website on a regular basis for up-to-date approvals information.

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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 for 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 lens)

**55000-010**

Intelligent Open-Area Visual Indicator (clear lens)

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.

- 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 a Discovery or XP95 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

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
- It is possible 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)
- EN54-3 Certified

Discovery Open-Area Sounder Visual Indicator:

**58000-005** Red lens

**58000-007** White lens

**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)
- EN54-3 Certified

Discovery Open-Area Voice Sounder:

**58000-010** Red

**58000-020** White

Discovery Open-Area Voice Sounder Visual Indicator:

**58000-030** Red

**58000-040** White

### 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 Apollo Discovery or XP95 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)
- EN54-3 and EN54-17 Certified

**55000-005**

Intelligent Open-Area Sounder Visual Indicator (red lens)

**55000-006**

Intelligent Open-Area Sounder Visual Indicator (clear lens)

### 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 any Discovery or XP95 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)
- EN54-3 and EN54-17 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 any Discovery or XP95 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)
- EN54-3 and EN53-17 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)

Please check the Apollo website on a regular basis for up-to-date approvals information.

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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.

- 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
- EN54-17 certified

**45681-277**  
Integrated Base Sounder

**45681-290**  
Integrated Base Sounder slow whoop

**45681-300**  
Integrated Base Sounder DIN-tone

**45681-293** Red cap

**45681-292** White cap

Ancillary  
Base  
Sounder



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

- 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.

- 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
- EN54-17 Certified

**45681-333**  
Loop-Powered Visual Indicator Base

**45681-292** White cap

**45681-293** Red cap



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.

- 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
- EN54-17 Certified

- 45681-330**  
Sounder Visual Indicator Base
- 45681-332**  
Sounder Visual Indicator Base  
Slow Whoop
- 45681-334**  
Sounder Visual Indicator Base DIN-tone
- 45681-292** White cap
- 45681-293** Red cap

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)
- It is possible 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
- It is possible 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		*For information about UL sounder visual indicator and bases go to the UL/ULC/FM section on page 149
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	
Weatherproof Multi-Tone Open-Area Sounder Visual Indicator White*	55000-297	
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	

Please check the Apollo website on a regular basis for up-to-date approvals information.



# Part 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).

EN54-23 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 EN54-23 standard and are continuing to develop additional approved devices.



### 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.

- EN54-23 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
- EN54-3 Certified Sounder
- IMO 1A tone included in Marine variant only

#### **45681-700**

Discovery Sounder VAD Base with Isolator

#### **45681-701**

Discovery Marine 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.

- EN54-23 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
- EN54-3 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.

- EN54-23 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.**

For up-to-date information on Part 23 approved products visit [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



# 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

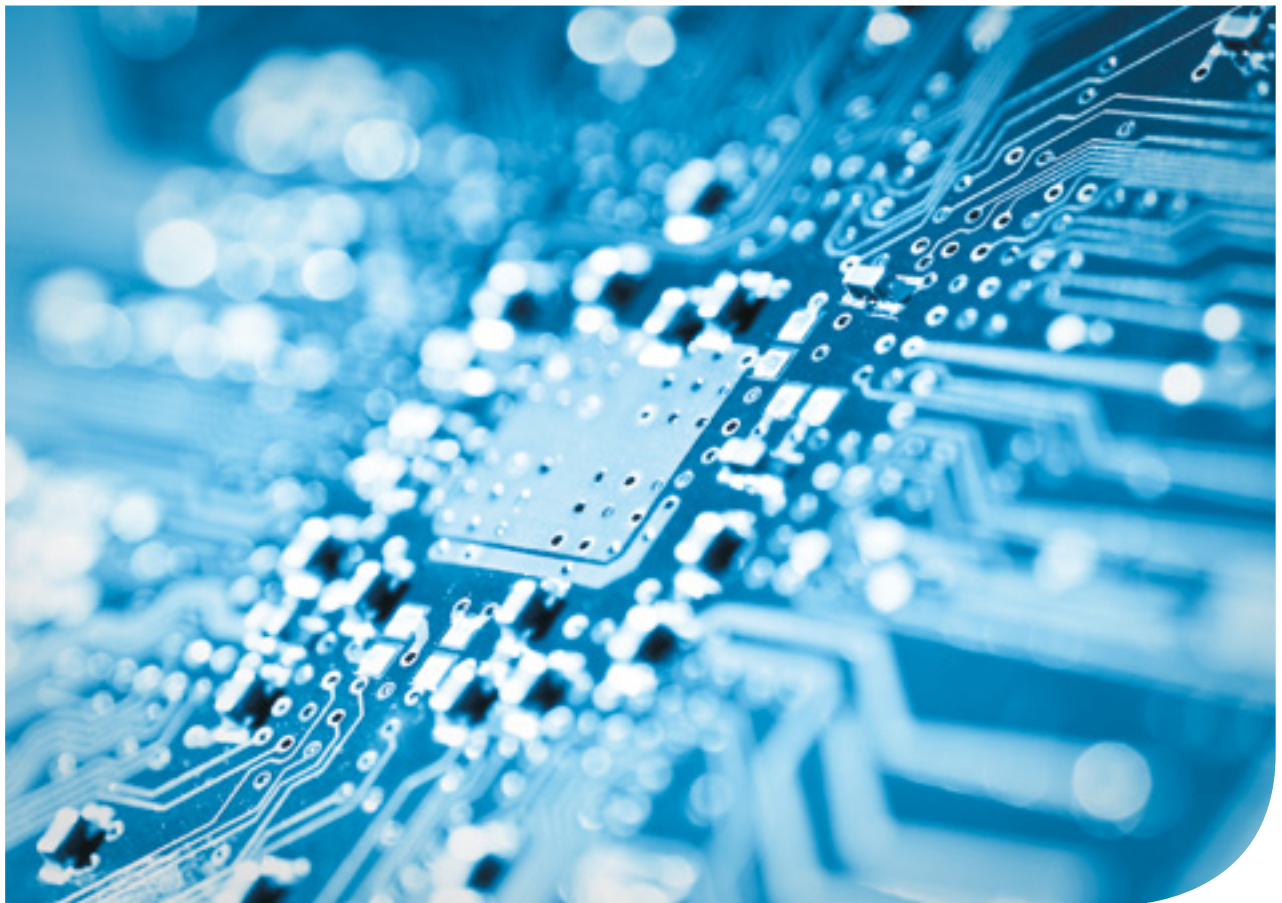
	Standard Enclosure	DIN-Rail Enclosure	Miniature Enclosure
Mini Switch Monitor		●	●
Switch Monitor	●	●	
Switch Monitor Plus	●	●	
Zone Monitor	●	●	
Sounder Control Unit	●		
Input/Output Unit	●	●	
Output Unit	●	●	
Sounder Controller (5 Amperes)		●	
Sounder Controller	●		
Dual Isolator		●	
3 Channel Input/Output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

\* Enclosure specific to 3 Channel Input/Output Unit



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# Standard



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
- A neat solution



**interfaces**  
FOR INTELLIGENT SYSTEMS

Find out more about all interfaces at [www.apollo-fire.co.uk/interfaces](http://www.apollo-fire.co.uk/interfaces)

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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.

- It can report fault, switch open and switch closed levels
- Three visible LEDs
- Loop-powered
- Capable of switching up to 30V at 1A

**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

**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

**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

**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 the status to Apollo compatible analogue control equipment.

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

**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 the 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

**55000-841** Switch Monitor Plus



For help selecting the interface that meets your particular needs, visit the website [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

Zone  
Monitor



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

- Loop-powered
- LED alarm indication

**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



Powers and controls the operation of a zone of Apollo Series 65 or Orbis detectors from a Discovery or XP95 loop.

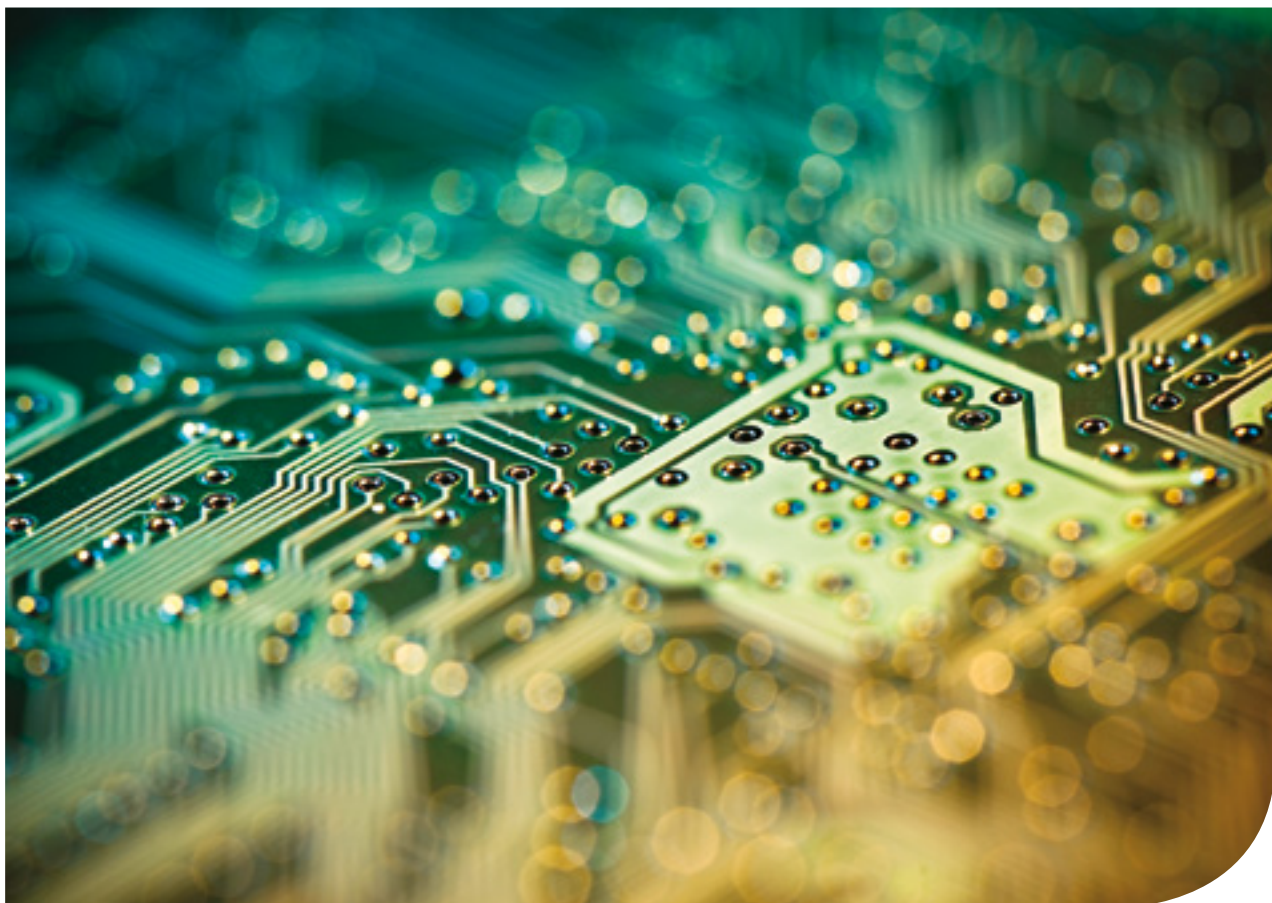
- Supplied with a polycarbonate back box for surface mounting

**55000-864**  
Locally Powered Zone Monitor

With the exception of the Mains Switching Input/Output Unit, Apollo's range of standard interfaces without isolators has been discontinued. The alternatives are listed to the right.

Standard interfaces with and without isolators		
	Without Isolator	With Isolator
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
Main Switching Input/Output Unit	55000-875	N/A

\* Not isolated.



# DIN-Rail



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



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Find out more about all interfaces at [www.apollo-fire.co.uk/interfaces](http://www.apollo-fire.co.uk/interfaces)

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DIN-Rail  
Input/Output  
Unit



The 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
- 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  
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 the 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  
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.

- 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

**55000-797**  
DIN-Rail Mains  
Input/Output Unit



Apollo offer a series of one day training courses. See page 11 for more information.

### 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 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, 1 second on, 1 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 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 the 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

DIN-Rail  
Zone Monitor  
with Isolator



The DIN-Rail Zone Monitor with Isolator powers and controls the operation of a zone of up to 20 Apollo Series 65 or Orbis fire detectors from 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 (IS) barriers or DIN-Rail mounted interfaces. A multi-purpose label that features a section for use with IS systems is supplied. For non-IS systems, the part referring to IS 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 the 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 EN54-11:2001 and have been designed to make installation and testing quick, easy and cost effective.

Introducing an extensive collection of EN54-11:2001 approved Manual Call Points manufactured by Apollo. Complementing 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.



CE CE  
0832 0359

Apollo's Manual Call Points include a number of features designed to make installation and testing quick, easy and cost effective.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





#### 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
- EN54-11 approved
- 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
- IP67 rated on all waterproof versions
- Captive screws on all waterproof versions



#### '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.



1 Apollo  
Discovery  
Manual Call Point



Apollo's Discovery 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 quick and simple reset.

- EN54-11 Approved (EN54-17 Approved for Isolator version)
- E-Z fit connectors
- Front facing addressing without the need to detach the back box
- A unique, ergonomically designed key for resetting and front cover removal
- Backward compatibility and retro-fit
- Resettable element

**58200-910**  
Apollo Discovery Manual Call Point

**58200-908**  
Apollo Discovery Manual Call Point with Isolator

2 Apollo  
XP95 Manual  
Call Point



Apollo's XP95 Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. When activated, the manual call point interrupts the polling cycle for a fast response and has a combined LED indicator and front reset mechanism allowing for a quick and simple reset.

- EN54-11 Approved (EN54-17 Approved for Isolator version)
- E-Z fit connectors
- Front facing addressing without the need to detach the back box
- A unique, ergonomically designed key for resetting and front cover removal
- Backward compatibility and retro-fit
- Resettable element

**55200-905**  
Apollo XP95 Manual Call Point

**55200-908**  
Apollo XP95 Manual Call Point with Isolator

3 Apollo  
Waterproof  
Manual Call Point



Apollo's 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 quick and simple reset.

- IP67 rated
- EN54-11 Approved (red version only)
- EN54-17 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

1



2



3



For answers to Manual Call Point frequently asked questions, visit [www.apollo-fire.co.uk/mcpfaqs](http://www.apollo-fire.co.uk/mcpfaqs)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

4 Apollo Discovery Manual Call Point (Non-Standard)



Apollo's Discovery Non-Standard Manual Call Points 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 and Discovery systems.

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

Apollo Discovery Manual Call Point (non-standard)

**58200-926** White

**58200-927** Yellow

**58200-928** Blue

**58200-929** Green

**58200-930** Orange

5 Apollo Conventional Manual Call Point



Apollo's Conventional Manual Call Points has been designed to work on a conventional fire detection zone and comply with EN54-11. Available in both indoor and outdoor variants, Apollo also offers a yellow variant suitable for alternative applications.

- Resettable element for testing
- Selectable 470Ω or 680Ω resistors
- Easy access, front reset mechanism
- EN54-11 Approved (red version only)

**55200-001**  
Apollo Conventional Manual Call Point Red

**55200-002**  
Apollo Conventional Manual Call Point Yellow

**55200-003**  
Apollo Conventional Waterproof Manual Call Point Red

**55200-004**  
Apollo Conventional Waterproof Manual Call Point Yellow

6 Apollo Dual Switch Manual Call Point



Apollo's Dual Switch Manual Call Point provides double pole change-over contacts suitable for applications that require multiple switching from a single activation point.

- Resettable element for testing
- Easy access, front reset mechanism
- 170° viewable LED

**55200-011**  
Apollo Dual Switch Manual Call Point

4



5



6



7

Apollo  
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 element for testing.

- Resettable element for testing
- Easy access, front reset mechanism
- Backward compatibility and retro-fit
- EN54-11 Approved

**55200-894**  
Apollo AlarmSense  
Manual Call Point Red

8

Apollo  
Discovery Marine  
Manual Call Point



The Discovery Marine Manual Call Points have been approved to EN54-11 and the Marine Equipment Directive 96/98/EC. The Marine Manual Call Points boast an IP45 rated (Indoor) and IP67 rated (Outdoor) model 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 and front cover removal
- IP45 Rated (Indoor Only)
- IP67 Rated (Outdoor Only)

**58200-970MAR**  
Apollo Discovery Marine  
Manual Call Point

**58200-971MAR**  
Apollo Discovery Marine  
Manual Call Point with Isolator

**58200-975MAR**  
Apollo Discovery Marine Waterproof  
Manual Call Point (Not pictured)

**58200-976MAR**  
Apollo Discovery Marine Waterproof  
Manual Call Point with Isolator  
(Not pictured)

9

Apollo  
Conventional Marine  
Manual Call Point



The Conventional Marine Manual Call Point has been approved for use on a Conventional Marine Fire system. The range is ideal for use within a variety of market segment vessels and other Marine and Offshore applications.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomically designed key for resetting and front cover removal
- IP45 Rated (Indoor Only)
- IP67 Rated (Outdoor Only)

**55200-021MAR**  
Apollo Conventional Marine  
Manual Call Point

**55200-022MAR**  
Apollo Conventional Marine  
Waterproof Manual Call Point

7



8



9



For answers to Manual Call Point frequently asked questions, visit [www.apollo-fire.co.uk/mcpfaqs](http://www.apollo-fire.co.uk/mcpfaqs)

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10

Apollo  
XP95 IS  
Manual Call Point



The Apollo XP95 IS 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 IS Manual Call Point

11

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

44251-175APO

Pack of 10 Transparent Hinged Cover

44251-189APO

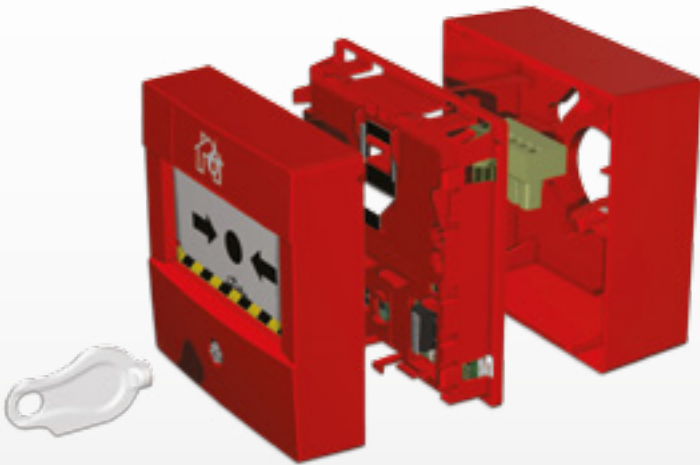
Single Transparent Hinged Cover



4 Easy Installation Steps:

- 1
- Activate
- 2
- Remove
- 3
- Reset
- 4
- Replace

Illustration demonstrates ease of installation for the Apollo Discovery/XP95 Manual Call Points.





# Manual Call Points



Key features of Apollo's call points 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



Please check the Apollo website on a regular basis for up-to-date approvals information.

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12

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 (surface)

**58100-908**  
Discovery Manual Call Point with Isolator (surface)

13

XP95  
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.

- ‘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 (surface)

**55100-908**  
XP95 Manual Call Point with Isolator (surface)

14

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

**58100-950**  
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 EN54-11 compliant and therefore cannot be used to signal fire.

15

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 (surface) †
- 58100-927** Yellow (surface) †
- 58100-928** Blue (surface) †
- 58100-929** Green (surface) †
- 58100-930** Orange (surface) †

16

Conventional  
Manual  
Call Point



Apollo’s Conventional Manual Call Points comply with EN54-11 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 yellow (non-standard) †

**55100-003**

Conventional Waterproof Manual Call Point without LED

**55100-004**

Conventional Waterproof Call Point without LED yellow (non-standard) †

17

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 (surface)



† Non-standard variants of the Manual Call Point are not EN54-11 compliant and therefore cannot be used to signal fire.

Please check the Apollo website on a regular basis for up-to-date approvals information.



18

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

19

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

20

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.

- **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

21

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 EN54-11 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



22 XP95 IS Manual Call Point



The XP95 IS Manual Call Point is based on the standard waterproof model. It has been designed to operate on XP95 Intrinsically Safe fire detection systems. Designed specifically for use in atmospheres in which explosive mixtures are or may be present.

- 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

- 55100-940**  
XP95 IS Manual Call Point
- 55100-942**  
XP95 IS Manual Call Point yellow (non-standard)
- 55100-944**  
XP95 IS Manual Call Point blue (non-standard)

23 XP95 IS 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 may be ordered 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
- With flap:
- 55000-961** Red
- 55000-963** Yellow
- 55000-965** Blue
- 55000-967** Black/yellow stripes
- Push-button:
- 55000-970** Red
- 55000-971** Yellow
- 55000-972** Blue
- 55000-973** Black/yellow stripes

24 Conventional IS Manual Call Point



The Conventional IS 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 IS Manual Call Point
- 55100-032**  
Conventional IS Manual Call Point yellow (non-standard)
- 55100-033**  
Conventional IS Waterproof Manual Call Point
- 55100-034**  
Conventional IS Waterproof Manual Call Point yellow (non-standard)

25 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



Please check the Apollo website on a regular basis for up-to-date approvals information.

# Mounting Accessories

Apollo offer a selection of accessories that can be used when installing Apollo's detectors, sounders and interfaces. These include backplates providing a high degree of protection from the ingress of water or dust, weatherproof visual indicator enclosures for installation 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.





Backplate



The Backplate provides a high degree of protection against the ingress of water or dust into the back of the 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



Have you seen the latest technology solutions from Apollo, including OpenConnect? See page 10 for more information or visit [www.open-connect.co.uk](http://www.open-connect.co.uk)

Please check the Apollo website on a regular basis for up-to-date approvals information.

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### 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. The new version is suitable for a wider range of detector bases as well as Apollo's AV bases.

- Protects against water ingress
- Improved performance
- Available in polycarbonate or metal
- 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 a Discovery or XP95 base.

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

**29600-318**  
Visual Indicator Enclosure

Please check the Apollo website on a regular basis for up-to-date approvals information.

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DIN-Rail  
Interface  
Enclosures



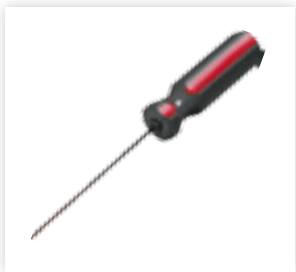
DIN-Rail Interface Enclosures are available in two sizes and can be used for housing Intrinsically Safe (IS) barriers or DIN-Rail mounted interfaces. A multi-purpose label that features a section for use with IS systems is supplied. For non-IS systems, the part referring to IS can simply be removed.

- 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)

1.5mm  
Hexagonal  
Driver



The 1.5mm Hexagonal Driver is used to turn the locking screw fitted to Discovery, XP95 and Series 65 detectors, locking the detector to the base.

- Allows detectors to be secured to the base with ease

**29600-095**  
1.5mm Hexagonal Driver

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 offer 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**   
& offshore



Apollo devices can be found in the largest lifting vessel in Asia and the Liao Hai roll-on-roll-off ferry (China).

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





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.

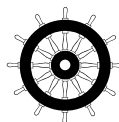




Discovery Marine analogue addressable fire detectors are suitable for larger vessels. The high specification range has been developed to meet the requirements of sophisticated systems. Discovery gives you total reassurance in installations where it is necessary to adapt detection to different operating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

**Key features of Discovery Marine include:**

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



Find out more about the Discovery Marine range at [www.apollo-fire.co.uk/discoverymarine](http://www.apollo-fire.co.uk/discoverymarine)

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**apollo**  
WORLD CLASS FIRE SOLUTIONS

### Discovery Marine Optical Smoke Detector



The Discovery Marine 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
- 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



## 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 cards are supplied with all bases.

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

### 45681-210MAR

Discovery Marine Mounting 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

## Marine Isolating Base



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

### 45681-286

Marine Isolating Base

## Discovery Marine Sounder VAD Base with Isolator



The Discovery Marine 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.

- EN54-23 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
- IMO 1A tone included
- EN54-3 Certified Sounder

### 45681-701

Discovery Marine Sounder VAD Base with isolator

## 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

## 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

## Apollo Discovery Marine Manual Call Point



The Discovery Marine Manual Call Points have been approved to EN54-11 and the Marine Equipment Directive 96/98/EC. The Marine Manual Call Points boast an IP45 rated (Indoor) and IP67 rated (Outdoor) model 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 and front cover removal
- IP45 Rated (Indoor Only)
- IP67 Rated (Outdoor Only)

### 58200-970MAR

Apollo Discovery Marine Manual Call Point

### 58200-971MAR

Apollo Discovery Marine Manual Call Point with Isolator

### 58200-975MAR

Apollo Discovery Marine Waterproof Manual Call Point (Not pictured)

### 58200-976MAR

Apollo Discovery Marine Waterproof Manual Call Point with Isolator (Not pictured)

## Marine Multi-Tone Open-Area Sounder Visual Indicator (Weatherproof)



The Marine Multi-Tone Open-Area Sounder Visual Indicator is designed for use in open areas. The Sounder Visual Indicator compliments Apollo's range of marine devices.

- 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

### 55000-398

Marine Multi-Tone Open-Area Sounder Visual Indicator (weatherproof) red with Isolator

### 55000-399

Marine Multi-Tone Open-Area Sounder Visual Indicator (weatherproof) white with Isolator

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

### Marine Multi-Tone Open-Area Sounder (Weatherproof)



The Marine Multi-Tone Open-Area Sounder is designed for use in open areas. The sounder comprises a backbox and sounder unit supplied together.

- Choice of tones on standard device: Apollo, Slow Whoop and DIN
- IP66 rated
- Synchronisation of tones
- Individual and group addressing
- Non-isolated
- Output 100dB(A)

#### **55000-374MAR**

Marine Multi-Tone Open-Area Sounder (weatherproof) red

#### **55000-375MAR**

Marine Multi-Tone Open-Area Sounder (weatherproof) white

### 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, 1 second on, 1 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



For our full range of Audio Visual products see page 81.

### 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 from 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 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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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 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 a Discovery Marine Base
- Loop-powered

**55000-027MAR**  
Marine Intelligent Base Mounted UV Flame Detector

Marine Intelligent  
Base Mounted  
UV Dual IR Flame  
Detector



The Marine Intelligent Base Mounted UV Dual IR 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 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 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 Dual IR Flame Detector

Marine Intelligent  
Base Mounted IR<sup>3</sup>  
Flame Detector



The Marine Intelligent Base Mounted IR<sup>3</sup> 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 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 IR<sup>3</sup> 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

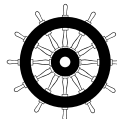
# orbis®



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.

**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



Find out more about the Orbis Marine range at [www.apollo-fire.co.uk/orbismarine](http://www.apollo-fire.co.uk/orbismarine)

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## 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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## Orbis Marine TimeSaver® Base



The Orbis Marine TimeSaver Base is a completely new design that 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

## 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

## Apollo Conventional Marine Manual Call Point



Apollo's Conventional Marine Manual Call Point has been designed to work on a conventional fire detection zone and is available for both indoor and outdoor marine applications.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomical designed key for resetting and front cover removal
- IP45 Rated (Indoor Only)
- IP67 Rated (Outdoor Only)

**55200-021MAR**  
Conventional Marine Manual Call Point  
**55200-022MAR**  
Conventional Marine Waterproof Manual Call Point (not pictured)

Electronic Solenoid Bell  
24V DC Red



A unique, patented alarm bell designed for use in fire, security and other signalling systems. The combination of a miniature solenoid with an integrated control circuit allows excellent sound coverage, minimum current consumption and increased reliability. The improved aesthetics make the bell suitable for all applications including the most prestigious locations.

- 155mm (6")
- High sound output
- Low current consumption
- Simple installation

**29600-534**

Electronic Solenoid Bell  
24V DC Red

**29600-535**

Electronic Solenoid Bell  
24V DC Red (weatherproof)

6" Motorised Bell  
(24V DC Red,  
Centrifugal)



All CF bells incorporate highly efficient rotary centrifugal movements combining high sound output with low current consumption.

- High sound output
- Low current consumption
- Simple installation

**29600-536**

6" Motorised Bell (24V DC Red, Centrifugal)

Marine Deep Base  
Visual Indicator



This Marine Deep Base Visual Indicator offers a wide operating voltage, increased efficiency and automatic synchronisation making it a universal solution for all types of alarm and monitoring system.

- Wide operating voltage from 9 - 60V DC
- Current surge suppression
- Automatic synchronisation
- High efficiency
- Suitable for outdoor use

**29600-537**

Marine Deep Base Visual Indicator (10CD)

**29600-538**

Marine Deep Base Visual Indicator with flashing LED (15CD)

Marine Solista Maxi



The Marine Solista Maxi is a high output LED Visual Indicator which allows the user the choice between economy and performance. In the economy modes the Marine Solista Maxi performs extremely efficiently requiring as little as 3mA, but it can be switched to attain much higher light outputs where visibility is the prime objective. For even greater effectiveness a double flash sequence can be selected.

- Wide operating voltage range
- Synchronised flashing
- High efficiency and reliability
- Locking bases

**29600-539**

Marine Solista Maxi (shallow base)

**29600-540**

Marine Solista Maxi (deep base)

Please check the Apollo website on a regular basis for up-to-date approvals information.

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## Marine Asserta Sounder



The Marine Asserta warning sounder designed to cope with harsh environments requiring protection to IP66. Design features are incorporated to ensure safer and easier installation, while providing flexibility with fewer product variants.

- 110dB(A) or 120dB(A) output version available
- IP66 protection
- Simple first and second fix installation
- 42 alarm tones
- Three stage alarm
- Sounder time out – user adjustable
- Optional swivel mount bracket

### 29600-541

Marine Asserta Sounder (110dB)

### 29600-543

Marine Asserta Sounder (120dB)

## Marine RoLP Sounder



The Marine Roshni Low Profile (RoLP) is the fire market's leading conventional sounder, although it finds uses in much wider applications such as security, general signalling and process alarms. The wide operating voltage and range of tones available to the user make this flexible sounder supremely adaptable in even its most basic forms.

- High sound output
- Low current consumption
- 32 tones (user selectable)
- Automatic synchronisation
- Volume control
- Second tone for two stage alarms
- Lockable base
- Suitable for outdoor use

### 29600-622

Marine RoLP Sounder (shallow base)

### 29600-623

Marine RoLP Sounder (deep base)

## Marine Asserta Sounder Visual Indicator



The Marine Asserta Sounder Visual Indicator is designed to cope with harsh environments requiring protection to IP66. Design features are incorporated to ensure safer and easier installation, while providing flexibility with fewer product variants.

- 24V DC or 230V AC operation
- 110dB(A) or 120dB(A) output version available
- IP66 protection
- Fully integrated asymmetric visual indicator uses light more efficiently
- Simple first and second fix installation
- 42 alarm tones
- Three stage alarm
- Sounder time out – user adjustable

### 29600-542

Marine Asserta Sounder Visual Indicator (110dB)

### 29600-544

Marine Asserta Sounder Visual Indicator (120dB)

## Marine Flashni Sounder Visual Indicator



The Marine Flashni is an audible and visual device which requires one single installation point. This greatly reduces installation and costs and is much less obtrusive than two separate devices. Versions are available with the sounder and visual indicator linked, or with separate terminals for independent operation.

- High output sounder visual indicator
- Automatic sounder synchronisation
- Volume control
- Choice of lens/sounder colour combinations
- Base compatible with RoLP visual indicator
- Lockable base

Marine Flashni Sounder/ Visual Indicator (red body)  
Shallow base:

**29600-624** Red lens

**29600-625** Clear lens

Deep base:

**29600-626** Clear lens

**29600-627** Red lens



## SIL2

Apollo Fire Detectors are pleased to announce that they have a range of devices independently evaluated and certified to SIL2 (Safety Integrity Level) with respect to their primary function (Detection, Manual Call Point, Audio, Visual etc) under IEC61508 Functional Safety of Electrical/ Electronic/ Programmable Electronic Safety-related Systems.



Please check the Apollo website on a regular basis for up-to-date approvals information.

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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.

- It is possible 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  
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 for warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure
- Five response modes
- Remote test feature

**58000-400SIL**  
Discovery Heat 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

**58000-500SIL**  
Discovery Ionisation Smoke Detector

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 for 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

XP95 IS  
Heat  
Detector



The XP95 IS 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

**55000-440SIL**  
XP95 IS Heat Detector

Please check the Apollo website on a regular basis for up-to-date approvals information.

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XP95 IS  
Ionisation Smoke  
Detector



The XP95 IS 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

**55000-540SIL**  
XP95 IS Ionisation Smoke Detector

XP95 IS  
Optical Smoke  
Detector



The XP95 IS 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 for escape routes
- Unaffected by wind or atmospheric pressure

**55000-640SIL**  
XP95 IS Optical Smoke Detector

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.

- It can report fault, switch open and switch closed levels
- Three visible LEDs
- Loop-powered
- Capable of switching up to 30V at 1A

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

55000-849SIL Output Unit

Apollo XP95 IS Manual Call Point



The Apollo XP95 IS 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

55200-940SIL Apollo XP95 IS Manual Call Point

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



Apollo  
Addressable  
Manual Call Point



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

- EN54-11 Approved (EN54-17 Approved for Isolator version)
- E-Z fit connectors
- Front facing addressing without the need to detach the back box
- A unique, ergonomically designed key for resetting and front cover removal
- Backward compatibility and retro-fit
- Resettable element

**55200-908SIL**  
XP95 Manual Call Point with Isolator

**58200-908SIL**  
Discovery Manual Call Point with Isolator

Apollo  
Discovery Marine  
Manual Call Point



The Discovery Marine Manual Call Points have been approved to EN54-11 and the Marine Equipment Directive 96/98/EC. The Marine Manual Call Points boast an IP45 rated (Indoor) and IP67 rated (Outdoor) model 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 and front cover removal
- IP45 Rated (Indoor Only)
- IP67 Rated (Outdoor Only)

**58200-971SIL**  
Discovery Marine Manual Call Point with isolator

**58200-976SIL**  
Discovery Marine Waterproof Manual Call Point with isolator

Apollo  
Waterproof  
Manual Call Point



Apollo's 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 quick and simple reset.

- IP67 rated
- EN54-11 Approved (red version only)
- EN54-17 Approved for Isolator version
- A unique, ergonomically designed key for resetting and front cover removal
- Captive screws

**58200-951SIL**  
Apollo Waterproof Manual Call Point with Isolator

# Intrinsically Safe

Apollo offer both analogue addressable and conventional smoke and heat detector ranges designed to be intrinsically safe, as they meet the requirements of the ATEX directive.



Apollo's Intrinsically Safe equipment is incapable of causing ignition in normal conditions, with a single fault or with a combination of any two faults.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





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, 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.

Apollo's IS ranges comply with MED 94/9/EC.



### Engineering plants

Hazardous areas and potentially explosive atmospheres within these environments require electrical equipment that cannot ignite an explosive mixture, achievable by using intrinsic safety.



### Factory environments

Factories where the processing or storing of gases, solvents, paints and other volatile substances, and are defined as hazardous areas are required to follow the BS EN 60079 code of practice. Apollo Intrinsically Safe ranges fulfil these requirements.





XP95 Intrinsically Safe (IS) detectors are a development of the well established analogue addressable XP95 range from Apollo. XP95 IS detectors feature all the benefits of the standard range, but are developed specifically for use in hazardous areas. The addresses of XP95 IS detectors are set by means of the patented XPERT card. See page 35 for more details.



Find out more about the XP95 IS range at [www.apollo-fire.co.uk/xp95is](http://www.apollo-fire.co.uk/xp95is)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

XP95 IS  
Optical Smoke  
Detector



The XP95 IS 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 for escape routes
- Unaffected by wind or atmospheric pressure

**55000-640**  
XP95 IS Optical Smoke Detector

XP95 IS  
Ionisation Smoke  
Detector



The XP95 IS 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 IS Ionisation Smoke Detector

XP95 IS  
Heat  
Detector



The XP95 IS 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 IS Heat Detector

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

XP95 IS  
Mounting  
Base



The XP95 IS Mounting Base has been designed to accept only IS products. This ensures that standard detectors cannot inadvertently be fitted into an Intrinsically Safe system. XPERT cards are supplied with all bases.

- XPERT addressing
- One way fit
- Only accepts IS detectors

**45681-215**  
XP95 IS Mounting Base

Apollo  
XP95 IS  
Manual Call Point



The Apollo XP95 IS 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 IS Manual Call Point

XP95 IS  
Manual Call Point –  
MEDC Style



The XP95 IS 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 address 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\*  
Push-button:  
**55000-970** Red  
**55000-971** Yellow\*  
**55000-972** Blue\*  
**55000-973** Black/yellow stripes\*



For our full range of Manual  
Call Points see page 98.

\* Does not have LPCB or CPD approval, or comply with EN54-11.

XP95 IS  
Galvanic  
Barrier



The XP95 IS Galvanic Barrier is installed in the safe area and ensures system integrity.

- Enables compliance with the ATEX directive

**29600-098** XP95 IS Galvanic Barrier

DIN-Rail  
Interface  
Enclosures



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

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 IS requirements

**55000-855**  
XP95 Protocol Translator (single channel)  
**55000-856**  
XP95 Protocol Translator (dual channel)

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



# Case Study

## Keeping London's Iconic Landmarks Safe This Summer

Summary	
Project Name:	Oxo Tower Wharf
Location:	London, UK
Market:	Commercial
Products used:	Products from XPander range
Installer:	Drax
Panel:	Morley-IAS Zx series control panels

Apollo fire detectors are now playing an integral part in keeping an iconic building on London's South Bank safe. Members of the Apollo Partner Plus initiative, Drax Services, has recently been working with the Coin Street Community Builders (CSCB) to develop a design proposed by Environmental Design Associates and install a system for the Oxo Tower Wharf. The Oxo Tower has been a riverside landmark since the 1930s but entered a new lease of life in the 1990s when CSCB refurbished it into the mixed-used development it is today.

Originally owned by the Liebig Extract Of Meat Company, the company that made the famous OXO beef cube, its architect, Albert Moore, incorporated the famous OXO moniker as windows on the tower to get around the ban on skyline advertising.

The iconic building, reopened in 1996, is now home to a unique community of design boutiques and studios. In addition to co-operative housing, the building is home to exhibition spaces including the gallery@oxo and Bargehouse and cafés and bars including the famous OXO Tower Restaurant, Bar and Brasserie.

Commercial Director, Alex Cother of Drax explains "The Wharf is one of a kind in London and was expecting an increasing number of visitors during a busy summer for the city as a whole. At any one time there can be up to 500 people in the building and with its concentration of over 20 retail studios as well as specialist shops, we needed a reliable solution that could be installed with minimum disruption.

"The Oxo Tower is open all week so the ageing system it had in place was kept running as we installed the new system. The selection of products, including Apollo's open protocol devices and several Morley-IAS by Honeywell Zx control panels, has allowed us to meet the client's specification and to install a Connect graphical user interface which will not only announce alarms and produce history reports, but will also improve the administration of the maintenance."

Project Manager, Michael Kalispera adds, "As installers we want to ensure our clients can continue to operate as easily as possible whilst we are carrying out our work. Our main concern on this project was minimising disruption. Installation of hard-wired equipment, by its very nature, can be a messy, noisy business and with shop units occupied by high-end galleries, hairdressers, designers and applied artists we wanted to work quickly, quietly and cleanly so customers could shop in peace and businesses could continue to run smoothly.

"The obvious solution for us was Apollo's wireless XPander Range. Although XPander equipment is more expensive than its traditional wired counterparts, this was offset by reduced installation costs. As we didn't require cables in certain areas we could cut our time on-site and, as a result, there were fewer interruptions to staff and customer as well as less mess and noise.

"We received valuable support from Apollo during the installation and the technical team visited us at the Tower on a number of occasions. They were able to understand the needs of the project first hand and advise us on the type and quantity of equipment required, carry out signal strength testing of the radio equipment and assess its suitability to the fire alarm infrastructure.

"In this unique environment we would have struggled to find a solution without Apollo's XPander range - the help and support the team provided us with throughout the project was critical to its success."



# orbis<sup>™</sup>



Orbis IS is a range of conventional detectors which have been developed from the standard Orbis smoke and heat detectors. Orbis IS is a range with modern styling and is electronically compatible with Apollo Series 60 Intrinsically Safe conventional detectors. Orbis IS 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 put ease of installation and reliability in daily operation at the forefront of considerations.

**Key features of Orbis IS include:**

- TimeSaver<sup>®</sup> Base
- Patented FasTest<sup>®</sup> enabling functional testing in four seconds
- DirtAlert<sup>®</sup> indicates limit of drift compensation
- Tolerates extreme operating conditions: -40°C to +70°C
- False alarm reduction
- Flashing LED option



Find out more about the Orbis range at [www.apollo-fire.co.uk/orbis](http://www.apollo-fire.co.uk/orbis)

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412





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apollo  
WORLD CLASS FIRE SOLUTIONS

Orbis IS  
Optical Smoke  
Detector



The Orbis IS 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 IS Optical Smoke Detector  
**ORB-OP-52028-APO**  
Orbis IS Optical Smoke Detector with flashing LED

Orbis IS  
Multisensor Smoke  
Detector



The Orbis IS 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 IS Multisensor Detector  
**ORB-OH-53028-APO**  
Orbis IS Multisensor Detector with flashing LED

Orbis IS  
Heat  
Detector



The Orbis IS 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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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Orbis IS  
TimeSaver®  
Base



The Orbis IS 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 IS Timesaver® Base

Orbis IS  
Adaptor



The Orbis IS Adaptor enables Orbis IS detector heads to be fitted into existing Series 60 IS bases in order to upgrade systems with minimal disruption.

- Eliminates the need for re-wiring

**ORB-BA-50008-APO**  
Orbis IS Adaptor

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

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

DIN-Rail  
Interface  
Enclosures



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

Conventional IS  
Manual Call Point



The Conventional IS 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, certain design considerations must be observed.

- ‘Plug and Play’ terminal connections for fast wiring
- Resettable element

**55100-031**

Conventional IS Manual Call Point

**55100-032**

Conventional IS Manual Call Point (non-standard) yellow

**55100-033**

Conventional IS Waterproof Manual Call Point

**55100-034**

Conventional IS 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

IS Audio Visual



The IS Conventional Sounder and Conventional Sounder Visual Indicator are suitable for intrinsically safe signaling applications including fire, security and process control. The Conventional IS 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**

IS Conventional Sounder

**29600-446**

IS Conventional Sounder Visual Indicator

Please check the Apollo website on a regular basis for up-to-date approvals information.

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# UL/ULC/FM

Apollo's product offering includes the detectors & other devices developed and approved for the UL/ULC/FM markets. Apollo has carefully researched and developed the ranges to ensure that they meet not only UL and other standards but also the demands of today's high technology environments.

## Key features of Discovery UL include:

- XPERT Card addressing
- Resists steam and cigarette smoke
- Flashing LED option
- Five response modes for 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 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, which reduces 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 are vital.



Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412



### 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, smoldering fires
- Well suited for 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 for 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 for warehouses, loading docks and parking garages
- Unaffected by wind or atmospheric pressure
- Remote test feature

#### 58000-450

Discovery UL Heat Detector



**Apollo offer a series of one day training courses. See page 11 for more information.**



## 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 range. 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 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.

### Key features of XP95A include:

- XPERT card addressing
- Analogue value report
- Alarm flags for fast alarm response
- Synchronisation of all loop-powered notification devices
- Advanced error check



Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

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, smoldering fires
- Well suited for 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 for 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 for warehouses, loading docks and parking garages
- Unaffected by wind or atmospheric pressure

**55000-450**  
XP95A Heat Detector

† Does not have ULC approval

SL-DAA 2-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.

- 2-Wire addressable detector with relay output
- XP95A sensor
- Wide operating voltage

SL-DAA-N Ionisation  
SL-DAA-P Photoelectric

SL-DA4R 4-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.

- 4-Wire addressable detector with relay output
- XP95A sensor
- Wide operating voltage

SL-DA4R-N Ionisation  
SL-DA4R-P Photoelectric

Please check the Apollo website on a regular basis for up-to-date approvals information.

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# 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

CSFM



SIGNALLING



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**apollo**  
WORLD CLASS FIRE SOLUTIONS

## 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 but has an indicator LED which is clear in quiescent state but produces red light in alarm.

- Responds well to slow-burning, smouldering fires
- Well suited for 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 standard

### 55000-326

Series 65A Photoelectric Smoke Detector with flashing LED

### 55000-325

Series 65A Photoelectric Smoke Detector with flashing LED and magnetic test switch

### 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 standard

### 55000-226

Series 65A Ionisation Smoke Detector with flashing LED

### 55000-225

Series 65A Ionisation Smoke Detector with flashing LED and magnetic test switch

## Series 65A Heat Detector



The Series 65A Heat Detector monitors temperature by using a dual thermistor network which provides 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 standard

### 55000-139 135°F with flashing LED

### 55000-138 135°F with flashing LED and magnetic test switch

### 55000-143 170°F standard

### 55000-142 170°F with flashing LED

### 55000-141 170°F with flashing LED and magnetic test switch

### 55000-146 200°F standard

### 55000-145 200°F with flashing LED

### 55000-144 200°F with flashing LED and magnetic test switch

Please check the Apollo website on a regular basis for up-to-date approvals information.

For all your fire detection products [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk) +44 (0) 2392 492 412

SL-2000  
Conventional Duct  
Smoke Detector



The SL-2000 is a four-wire conventional duct smoke detector that includes 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.

- 4-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 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.

- 2-Wire conventional detector with relay output
- Series 65A sensor
- Operating voltage: 9-33V DC

**SL-D2W-N** Ionisation  
**SL-D2W-P** Photoelectric

RT-3000  
Weatherproof Duct  
Smoke Detector



The RT-3000 Weatherproof Duct Smoke Detector is a weather tight NEMA 4X rated corrosion resistant enclosure. Coupled with the extended temperature listings that allow for installation of this conventional duct smoke detector in the widest possible range of indoor/outdoor environments. The truly innovative built-in features save time and money during install, testing and maintenance cycles, significantly reducing the total cost of ownership versus other comparable products.

- 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 Special  
Application Duct  
Smoke Detector

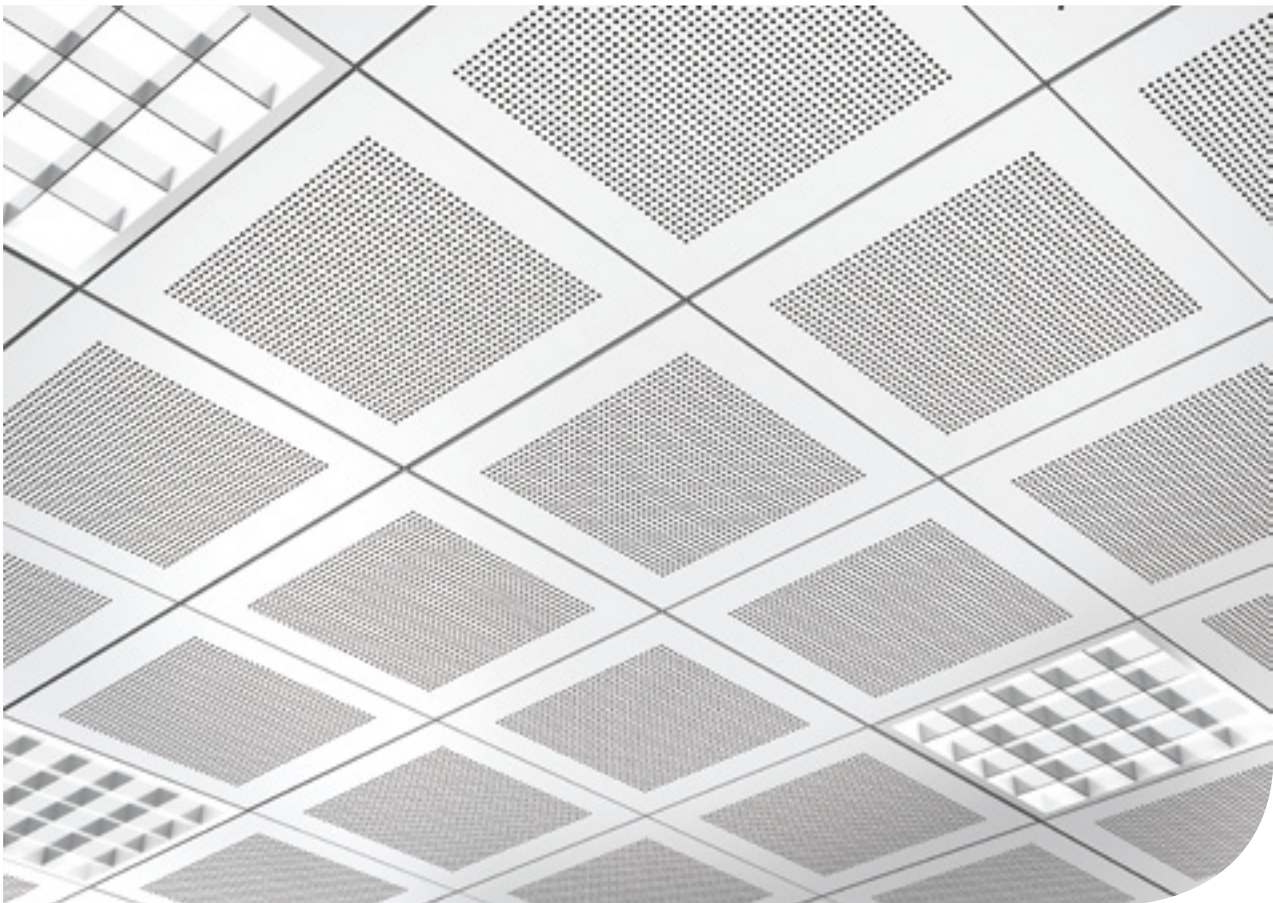


The HS-100 is designed specifically for applications where our standard external mount duct detectors cannot be utilized. Application examples include HVAC plenum return systems in commercial rooftop package units, air shafts, between-ceiling plenum spaces, dampers and applications requiring extremely low or no air velocity ( $\leq 100$  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





# Bases



Please check the Apollo website on a regular basis for up-to-date approvals information.

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### 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 cards are supplied with all bases.

- XPERT 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 addressing

**45681-321UL** XP95A Isolating Base

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”

Please check the Apollo website on a regular basis for up-to-date approvals information.

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Series 65A  
Auxiliary  
Relay Base 4"

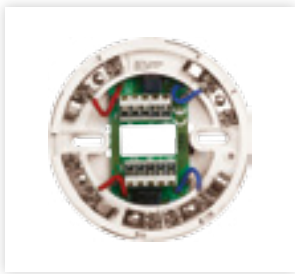


The Series 65A Auxiliary Relay Base provides two sets of volt-free changeover contacts to facilitate the switching of a remote LED or other auxiliary device.

- 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"



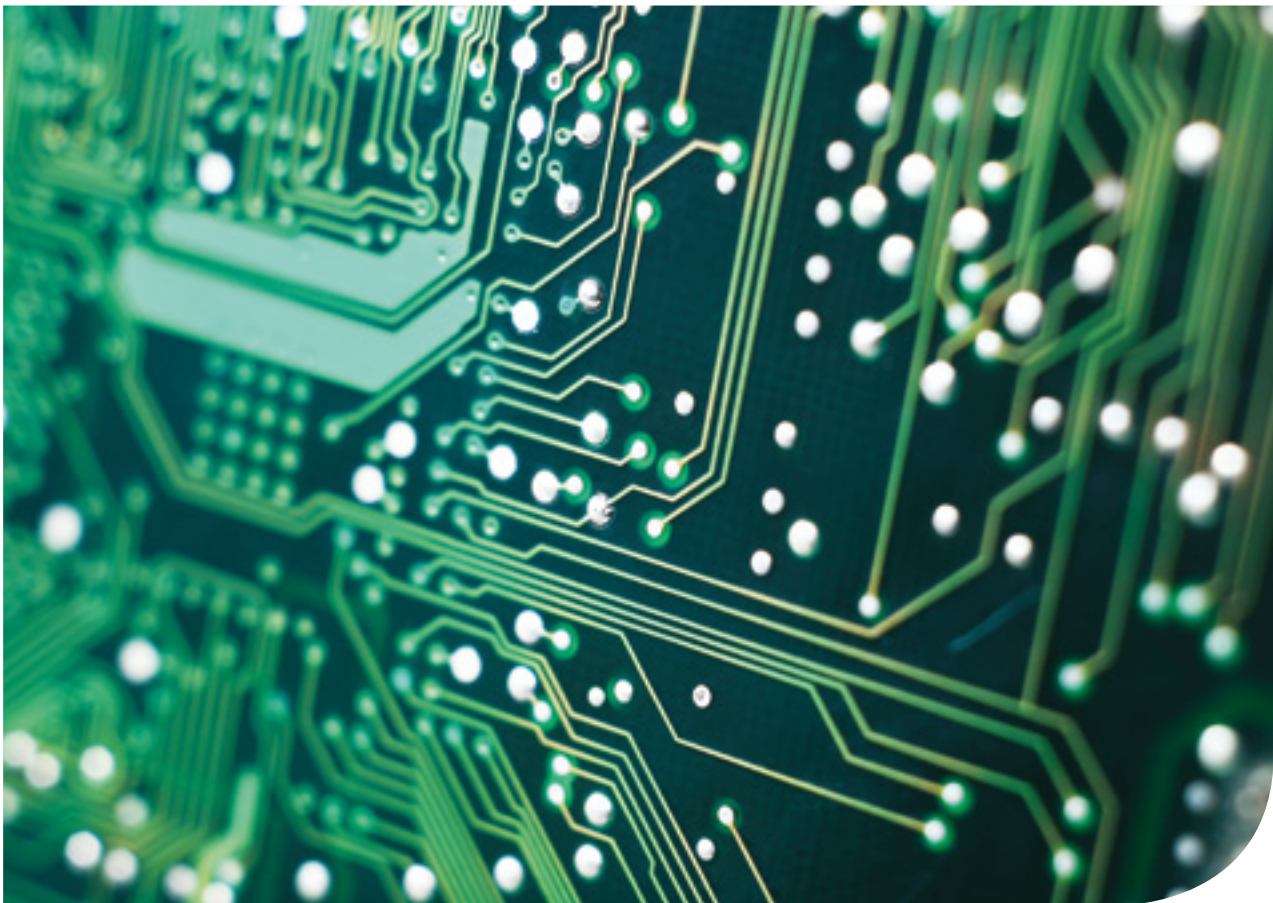
A low profile mounting base for Series 65A detectors.

- High degree of protection against unauthorised removal

**45681-251**  
Series 65A E-Z Fit Base 6"



For our full range of Audio Visual products see page 81.



# Modules

DISCOVERY® XP95A



Please check the Apollo website on a regular basis for up-to-date approvals information.

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### 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

### 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 the 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

### 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 the 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 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
- Loop-powered
- Fast response time
- Interrupt facility

**55000-806**  
XP95A Priority Switch Monitor Module

Please check the Apollo website on a regular basis for up-to-date approvals information.

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### 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, 1 second on, 1 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 2-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 fascia plate for use with a 4" square or 2 gang electrical back box.

- Loop-powered
- Visible LEDs

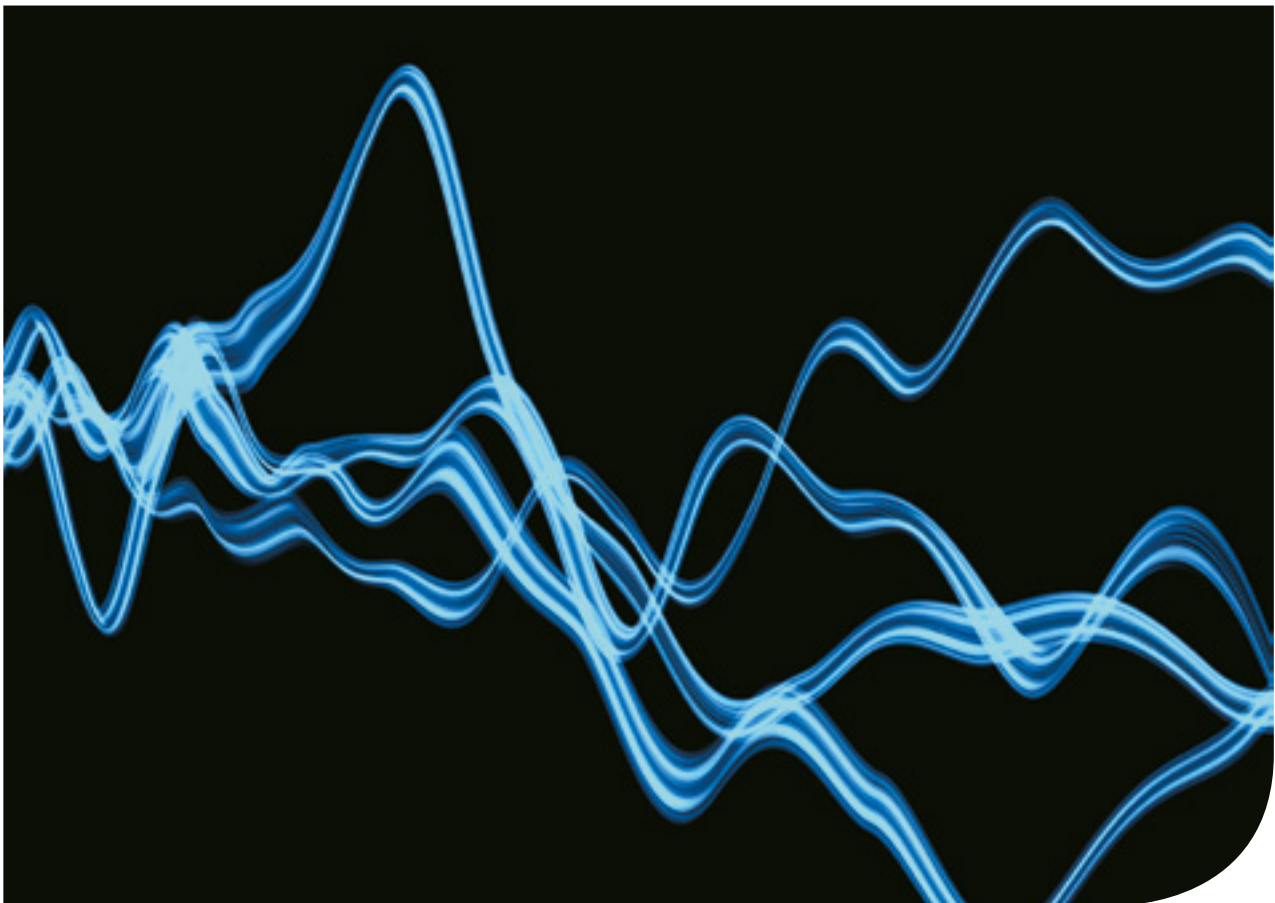
**55000-859**

XP95A 120V AC Input/Output Module

Please check the Apollo website on a regular basis for up-to-date approvals information.

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# Notification Devices

 DISCOVERY® 



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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)

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)

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 lens)

**58000-012**

Discovery UL Open-Area Sounder Visual Indicator (white lens)

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

Please check the Apollo website on a regular basis for up-to-date approvals information.

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Multi-Flex  
Detector  
Sounder Base



Multi-Flex  
Synchronisation  
Module



The Multi-Flex family of smoke detector sounder bases and synchronisation modules provide today's most advanced functionality and performance, delivering flexible notification capabilities for any installation.

The bases offer selectable steady or temporal pattern output and selectable high or low volume levels. The three-pulse temporal pattern is required by NFPA 72 for fire alarm evacuation for commercial and residential applications.

- Compatible with Apollo analogue addressable (XP95A and Discovery UL Series) and conventional (Series 60A and Series 65A) smoke detectors, including heat, photoelectric and ionisation types
- Volume and tone settings are independently selectable
- Backwards compatible with previous generation sounder and relay base models

**MB-SDRT-AA**

Analogue Addressable Detector  
Sounder Base

**MB-SDRT-CV**

Conventional Detector Sounder Base

**MB-SDRT-SM/G**

Metal 2-Gang Mounting Chassis with  
White Wall Plate Cover

**MB-SDRT-SM/G/R**

Metal 2-Gang Mounting Chassis with  
Red Wall Plate Cover

**MB-SDRT-SM/T**

Low-Profile Snap-Track with Provided  
Mounting Screws

**MB-SDRT-SM/C**

Grey ABS Cover, 18Ga. CRS, Plated with 6"  
Conduit Knockouts, Top and Bottom

**MB-SDRT-SM/C/R**

Red ABS Cover, 18Ga. CRS, Plated with 6"  
Conduit Knockouts, Top and Bottom



# Pull Stations

DISCOVERY® XP95A



Please check the Apollo website on a regular basis for up-to-date approvals information.

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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

Mini Monitor  
Module  
(Converts standard pull  
station to addressable)



The Mini Monitor Module is an interface within a housing that 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 the status to Apollo compatible analogue control equipment.

**55000-765**  
Mini Monitor Module

# Case Study

## High Flyers Protected On The Ground

A large Ministry of Defence base in Southern England is now protecting its US Air Force personnel with Apollo Fire Detection equipment in its on-site military accommodation.

Global Fire Services (GFS) were commissioned to refit equipment in more than 500 of the base's single room dormitories, replacing a legacy system which gave the base limited insight into any potential fire risks.

Greg Smith, director at GFS explains more about the new system: "The base now has a more 'intelligent' fire detection system, which not only minimises the risks of false alarms, but also provides those monitoring the systems with a clearer idea of any potential issues.

"It consists of three Advanced Mx-5000, networked four loop addressable control panels, to which the Apollo Discovery devices are connected. On activation of any manual call point or smoke sensor in the common areas or any sprinkler throughout the building, the system will activate all the sounders, shut down the cookers and plant, and report to the on-site signalling system. Thanks to the combination of the Mx-5000 networked panels and Apollo devices the level of data this system is able to gather from the alerts is much more advanced than the previous system and is able to give those managing facilities on site a clearer indication of any next steps required.

"In addition, the Advanced Mx-5000's programming now has comprehensive confirmation filters, an additional step to minimise false alarms in its sleeping quarters. Before the refit, only smoke detectors were present in the dorms – if one was activated the whole building would be alerted and evacuated. With this level of disruption, false alarms were frustrating and costly for the base.

"With Apollo Discovery Multisensors now installed, the fault-tolerant network now has a confirmation setting in place within all of the bedrooms. If any smoke is sensed within the room the local sounder will sound for a five minute interval.

During this time period the system will then change the detector to a heat sensor. If a fire was the cause of the initial alarm heat will also be generated and a full alarm condition will be activated. In addition, any other device activated during this period will also create a full alarm condition. If no other device is activated, or no heat sensed, the local sounder will automatically reset after the five minute timer ends.

"We use Apollo and Advanced's Mx-5000 analogue panels because they are the highest quality available, easily installed and networked and offer superior performance and cause-and-effect and programming. The Mx-5000 work's flawlessly with Apollo's Discovery open protocol. "To provide evidence of system compatibility the base required the new fire detection equipment to comply with EN54-13.

"The Advanced Mx-5000 has been tested and certified to the requirements of EN54-13 for all circuits and for compatibility with the Apollo Discovery range of devices. This means that Apollo's Discovery range and Advanced's Mx-5000 panel work together to deliver a fully EN54 part 13 compliant system, one of the few available."

"Due to the buildings being fully occupied our engineers had to ensure a fully functional system was in place throughout the project. This was adhered to throughout the installation and the job completed ahead of its tight time schedule.

Summary	
Project Name:	Ministry of Defence Base
Location:	UK
Market:	UK
Products used:	Products from the Discovery range
Installer:	Global Fire Service
Panel:	Advanced Mx-5000



Please check the Apollo website for more case studies.

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# 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. Apollo offers a range of test equipment for both conventional and intelligent systems to enable you to do this.



CE

XP95  
Test Set



The XP95 Test Set is a self-contained, portable test unit capable of providing a number of useful functions in relation to individual detectors, ancillary devices or complete circuits of analogue addressable devices in the Apollo intelligent ranges. The main function of the test set is to help the engineer guarantee correct loop configuration before an active control panel is installed.

- User friendly LCD information display
- Speedy commissioning
- No unnecessary site visits
- Significant cost reductions

**55000-870EUR**  
XP95 Test Set

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

Conventional  
Test Set



The Conventional Test Set is an invaluable tool designed to give a thorough on-site check of conventional fire detectors within the Apollo Series 65 and AlarmSense ranges. Each test set is supplied with a link head, mains adaptor and carrying case with shoulder strap.

- Easy to use
- Two button select/accept options
- LCD for clear display

**53832-020**  
Conventional Test Set

Flame Sensor  
Test Unit  
and Case



The Flame Sensor Test Unit is a tool which is designed to test flame detectors without the need of real flames.

- Mimics the characteristics of real flames

**29600-226**  
Flame Sensor Test Unit  
and Case

Please check the Apollo website on a regular basis for up-to-date approvals information.

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# Equipment

In addition to the main test kits, Apollo provide a range of equipment to enable you to keep 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

### 1.5mm Hexagonal Driver (locks detectors to bases)

**29600-095**  
1.5mm Hexagonal Driver  
(locks detectors to bases)

## 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 unenforceable 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](http://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 be 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 WEEE/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

[www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

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