

 DISCOVERY®

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

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

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



**DISCOVERY RANGE**

Find out more information at:  
[apollo-fire.co.uk/products/range/discovery](http://apollo-fire.co.uk/products/range/discovery)

**KEY FEATURES OF DISCOVERY INCLUDE:**

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



Note: For approvals of individual detectors refer to the appropriate data sheet.

## Optical Smoke Detector



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

Responds well to slow-burning, smouldering fires

Well-suited to bedrooms and escape routes

Unaffected by wind or atmospheric pressure

Five response modes approved to EN 54

Remote test feature

Comprehensively tested to the EN54 standard

**58000-600**  
Discovery Optical Smoke Detector

## Optical/Heat Multisensor Detector



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

Ideal for a wide range of applications

Enhanced false alarm management

Recommended, in specific modes, for hotel bedrooms and hospital wards

Unaffected by wind or atmospheric pressure

Well-suited to sensitive environments

Five response modes approved to EN 54

Heat only and optical only options

Remote test feature

Comprehensively tested to the EN54 standard

**58000-700**  
Discovery Multisensor Detector

## Heat Detector



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

Ideal in environments that are dirty or smoky under normal conditions

Well-suited to warehouses, loading bays and car parks

Unaffected by wind or atmospheric pressure

Five response modes approved to EN 54

Remote test feature

Comprehensively tested to the EN54 standard

**58000-400**  
Discovery Heat Detector

## 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 approved to EN 54

Remote test feature

Comprehensively tested to the EN54 standard

**58000-500**

Discovery Ionisation Smoke Detector

## 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 approved to EN 54

Remote test feature

Comprehensively tested to the EN54 standard

**58000-300**

Discovery Carbon Monoxide Detector

## CO/Heat Multisensor Detector



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

Responds to smouldering and flaming fires

Less susceptible to false alarms caused by steam and dust

Five response modes approved to EN 54

Remote test feature

Comprehensively tested to the EN54 standard

**58000-305**

Discovery CO/Heat Multisensor Detector

## Intelligent Mounting Base



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

XPERT 7 Card addressing

One-way fit of detector

Locking feature to prevent unauthorised detector removal

**45681-210**

Intelligent Mounting Base

### Intelligent Deep Base



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

Enables surface wiring

XPERT 7 Card addressing

Locking feature to prevent unauthorised detector removal

**45681-209**  
Intelligent Deep Base

### Intelligent Low Power Relay Base



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

Provides a set of voltage-free contacts controlled by the remote output of a detector

Draws negligible current

Capable of switching up to 30V at 1A

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

### Intelligent Heater Base



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

Raises the ambient temperature of a detector chamber by approximately 10°C

Limits the risks or potential for losses of functionality of detectors installed in cold conditions

**45681-219**  
Intelligent Heater Base

**45681-519**  
Waterproof Base Cover

**45681-217**  
Deckhead Mounting Box

### Isolating Base



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

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

High-brightness LED

Detects wiring short-circuits

Minimises disruption from short-circuits

**45681-284**  
Isolating Base

## Isolator



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 deisolation 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

## MiniDisc Remote Indicator



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

Can be used across the entire Apollo range

Small and discreet

Anti-tamper screw to protect against unauthorised removal

**53832-070**  
MiniDisc Remote Indicator

## XPERT 7 Card



XPERT 7 Cards are supplied with all XPERT 7 Mounting 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 7 Card

**45682-127**  
Pre-Addressed XPERT 7 Cards