

Fire detection and evacuation solutions that save lives.

Discovery – Optical Smoke Detector

Features

- Responds well to slow-burning, smouldering fires
- Unaffected by wind or atmospheric pressure
- Remote test feature
- Five operating modes approved and certified
- Drift compensation to ensure constant sensitivity
- Rejection of transient signals
- Two clear 360° LED visibility in alarm & flashing LED option

Description

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

The detector features two integral LEDs that can indicate alarm status or flash upon polling by the fire control panel.

Discovery is a range of high specification, analogue addressable fire detectors. Discovery detectors offer reliable detection and false alarm management by a combination of 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. The remote test feature allows the fire control panel to electrically trigger the detector into alarm to confirm correct operation. 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. The response characteristics have been carefully set so that the detectors comply with the requirements of the relevant standards in all response modes. Each mode corresponds to a unique response behaviour, which is related to sensitivity to fire. 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.

Applications

- Bedrooms
- Warehouses
- Hospitals
- Passages
- Hotels
- Offices
- Escape routes
- Restaurants
- University campuses

Compliance



Optical Smoke Detector

Item Numbers

LPCB (EN54-7)

58000-600AMP

Discovery Optical Smoke Detector

SAI Global (AS7240-7)

4106-2005

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Specifications

Operating voltage	17 to 28 VDC		
Quiescent current	300µA		
Alarm current, LED on	3.5mA		
Remote LED current	4 mA at 5 V		
Response Times			
Sensitivity settings	Alarm threshold (%/m)	dB/m	Minimum time to alarm (Seconds)
Mode 1	1.4	0.08	5
Mode 2	1.4	0.08	30
Mode 3	2.1	0.12	5
Mode 4	2.1	0.12	30
Mode 5	2.4	0.14	5
Operating temperature	-40°C to +70°C		
Storage temperature	-40°C to +80°C		
Relative humidity	0% to 95% RH (no condensation or icing)		
Dimensions	100mm Dia x 50mm H inc base		
Weight	160 grams inc base		

For further information refer Product Guide MAN3038.