

Fire detection and evacuation solutions that save lives.

XP95 - Optical Smoke Detector

Features

- Alarm flag for fast alarm reporting
- Electronics-free base
- Responds well to slow burning, smouldering fires
- Easy installation
- Well suited for bedrooms and escape routes
- Elegant design
- Unaffected by wind or atmospheric pressure
- Insect resistant

Description

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 XP95 Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely. The Detector continuously monitors the environment for contamination of clean air by smoke particles. This facilitates early warning of incipient fires.

The Optical arrangement inside the detector uses an internal pulsing LED together with a photo-diode which is located at an obtuse angle. In normal clear air conditions, the photo-diode in the detector receives no light from the LED and produces a corresponding signal. This signal increases when smoke enters the chamber and light is scattered onto the photo-diode. The signal is processed by the electronic circuitry and transmitted to the main fire control equipment via the detection loop circuit.

The Optical Smoke Detector shares the same mechanical dimensions and colour as that of other detectors in the XP95 range of products.

As with all detectors in the XP95 range, the Optical Smoke Detector is used in conjunction with the XP95 universal Detector Base which incorporates the unique XPERT card and is used to configure the address of the detector.

Item Numbers

LPCB (EN54-7)

55000-620AMP	XP95 Optical Smoke Detector
55000-660AMP	XP95 Optical Smoke (Black) Detector

SAI Global (AS7240-7)

4106-2001	XP95 Optical Smoke Detector
4106-2010	XP95 Optical Smoke (Black) Detector



Optical Smoke Detector

Applications

- Living Areas & Hospitals
- Warehouses
- Computer Rooms

Specifications

Operating voltage	17 to 28 VDC	
Quiescent current	340µA average 600µA peak	
Alarm current LED on	3.5mA	
Remote LED current	4mA at 5V	
Dimensions	100mm Dia x 50mm H inc base	
Sensitivity Settings	AS1603	EN54 & AS7240
Normal (100%)	7.5 % obs./m	3 % obs./m
High (80%)	6% obs./m	2.4 %obs./m
Low (120%)	9% obs./m	3.6 % obs./m
Operating temperature	-20°C to +60°C (no icing)	
Relative humidity.	0 to 95% (non condensing)	
IP rating	IP23D (indoor use)	
Weight	157 grams inc base	

For further information refer Product Guide MAN3037.

