

Fire detection and evacuation solutions that save lives.

## XP95 Intrinsically Safe Optical Smoke Detector

### Features

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

### Description

The XP95 Intrinsically Safe (I.S.) Detectors are a development of the well established analogue addressable XP95 range. I.S. Detectors feature all the benefits of the standard range, but are developed specifically for use in hazardous areas.

The XP95 I.S. Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smoldering 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.

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

#### **BASEEFA Certificate No.**

BAS02ATEX1289X

#### **IECEx Certificate No.**

IECEx BAS 12.0091X

#### **Classification (max ambient)**

Ex ia IIC T4 GA ( $\leq +60^{\circ}\text{C}$ )

Ex ia IIC T5 GA ( $\leq +45^{\circ}\text{C}$ )



*I.S. Optical Smoke Detector*

### Item Numbers

#### Australia

**201-0104** XP95 I.S. Optical Smoke Detector

#### International

**55000-640APO** XP95 I.S. Optical Smoke Detector

### Specifications

<b>Operating Voltage</b>	14 to 22 VDC
<b>Quiescent Current</b>	340 $\mu$ A
<b>Remote LED Current</b>	1mA (internally limited)
<b>Dimensions</b>	100mm Dia x 50mm H inc base
<b>Operating Temperature</b>	-20 $^{\circ}$ C to +60 $^{\circ}$ C (no icing) -20 $^{\circ}$ C to +40 $^{\circ}$ C (T5). -20 $^{\circ}$ C to +60 $^{\circ}$ C (T4).
<b>Relative Humidity</b>	0 to 95% (non condensing)
<b>IP Rating</b>	IP23D (indoor use)
<b>Weight</b>	157 grams inc base
<b>Approvals</b>	EN54-7

For further information refer respective Product Guide MAN3054