



XP95 I.S. Optical Smoke Detector



Optical smoke detectors incorporate a pulsing LED located in a labyrinth within the housing of the detector. The labyrinth is designed to exclude light from any external source. At an angle to the LED is a photo-diode which, in clear air conditions, does not receive light directly from the LED. The detector transmits a clear air signal to the control panel. When smoke enters the labyrinth, light is scattered onto the photo-diode and the signal to the panel increases. The signal is processed by the electronic circuitry and transmitted to the control equipment in exactly the same way as in the case of the ionization smoke detector. Full details of the principles of operation and the electrical description are published in the XP95 Engineering Product Guide. XP95 I.S. detectors have the same operating characteristics as the standard versions.

XP95 I.S. Heat Detector



The XP95 IS Heat Detector is distinguishable from XP95 IS smoke detectors by its low air-flow resistance case which allows good contact between the sensing thermistor and the surrounding air. The device monitors temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature. The voltage signal is processed and transmitted to the control equipment in the same way as in the case of the ionisation smoke detector. Full details of the principles of operation and the electrical description are published in the XP95 Engineering Product Guide. XP95 IS detectors have the same operating characteristics as the standard versions.

XP95 I.S. Mounting Base

Product code: 45681-215APO



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. The XP95 IS Base for the intrinsically safe range is not identical with that for the standard range. This ensures that standard detectors cannot inadvertently be fitted to an intrinsically safe system.

XP95 I.S. Galvanic Barrier

Product code: 29600-098



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

XP95 I.S. Manual Call Point (Red)

Product code: 55200-940APO



The XP95 I.S. Manual Call Point has been designed to operate on a loop of intelligent fire detection devices and when activated interrupts the polling cycle for a very fast response. When activated, the intrinsically safe call point not only interrupts the polling cycle to indicate to the control panel that it has been operated, but also reports its address. Thus an alarm and its location can be reported in less than 0.2 seconds. Full details of the principles of operation and the electrical description are published in the XP95 Engineering Product Guide. XP95 I.S. manual call points have the same operating characteristics as the standard versions. They are available in two types of housing and in a number of versions. Designed specifically for use in atmospheres in which explosive mixtures are or may be present, certain design considerations must be observed. The standard red I.S. manual call point is EN54-11:2001 compliant and has a resettable element. The range uses an IP67 weatherproof polycarbonate housing and is available in colours other than red. A transparent hinged cover part no: 44251-189 is available for protection against accidental operation.

Protocol Translator (Single Channel)

Product code: 55000-855APO



The Protocol Translator are installed in the safe area ensuring integrity of communication between control equipment and field devices and safety within the limits of BASEEFA approvals.

Protocol Translator (Dual Channel)

Product code: 55000-856APO



The Protocol Translator are installed in the safe area ensuring integrity of communication between control equipment and field devices and safety within the limits of BASEEFA approvals.

For more information on these products, please contact us:



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