

International Safety Technology Limited

INTELLIGENT SMOKE & HEAT DETECTORS

XP95



Electronics
Free Base



Patented XPERT
Address Card



XPERT Card
in Base

- Open, Digital Protocol for error-free transmission
- Wide range includes beam & flame detectors
- Interfaces for optimal system design



International Safety Technology Limited
692775
11, Moor Road, Broadstone,
Dorset, BH18 8AZ
United Kingdom

Tel: +44 1202

Fax: +44 1202 605588
email sales@ist-limited.com
web www.ist-limited.com

XP95

INTELLIGENT SMOKE & HEAT DETECTORS



◀ XP95 Ionisation Smoke Detector

Air in the dual sensing chambers is irradiated to produce ions that travel to the positive and negative electrodes, creating a current flow. As smoke enters the outer chamber the flow drops and voltage increases. The voltage is measured and an analogue signal is converted to digital for transmission to control equipment. Pre-alarm or fire alarm is instigated by the micro-processor when smoke density increases to pre-set levels.
Part no: 55000-500



◀ XP95 Optical Detector

The XP95 optical detector uses an internal pulsing LED and a photo-diode at an obtuse angle. In the event of smoke entering the chamber, the light pulse from the LED will be scattered and registered by the photo-diode. A signal is generated and transmitted digitally using the same method as the ionisation smoke detector above.
Part no: 55000-600



◀ XP95 Heat Detector

The XP95 heat detector has a low air-flow resistant case for good contact between sensing thermistor and surrounding air. Temperature is measured by a single thermistor network which gives a voltage output proportional to the external air temperature. The signal is processed and transmitted to control equipment.
Part no: 55000-400 (standard)
55000-401 (high temperature)



◀ XP95 Multisensor Detector

The XP95 multisensor detector contains an optical smoke sensor and a thermistor temperature sensor whose outputs are combined to give the final analogue value.
Part no: 55000-885

Intrinsically Safe

XP95 Intrinsically Safe detectors include all the benefits of the standard XP95 range, but are developed specifically for use in hazardous areas.

Marine

Details of products approved by marine organisations are available on the Apollo website.

▶ XP95 Beam Detectors

XP95 beam detectors are designed to protect large, open spaces.

Part no: 55000-265 (end-to-end)
55000-268 (reflective, 50m)
55000-273 (reflective, 100m)

▶ XP95 Flame Detector

The XP95 flame detector is sensitive to low-frequency, flickering infra-red radiation emitted by flames during combustion. It is designed for use in large areas that require a detector to give a fast response in potentially dusty or highly flammable environments, such as textile factories or aircraft hangars. *Please note: the flame detector is not supplied with a bracket.*

Part no: 55000-280
24600-203 (bracket)

▶ XP95 Manual Call Point

When operated, the manual call point interrupts the polling cycle and can report its address in under 0.2 seconds.

Part nos: 55000-905 (surface mounting)
55000-906 (flush mounting)

▶ Sounders

There are two types of loop-powered sounder available, ceiling-mounted (85dB) and stand-alone (100dB). Apollo also make loop-powered beacons and sounder beacons.

▶ XP95 Isolating Base

The XP95 20D Isolating base senses and isolates short circuit faults on XP95 loops and spurs. The base is loop powered, polarity sensitive and accepts the XPERT card to set the associated device address.
Part no: 45681-321

Interfaces for Intelligent Systems

A comprehensive range of interfaces is available. For more information, please refer to Apollo publication PP2025.

Bases

A wide range of bases is available. For more information, please refer to Apollo publication PP1089.



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