

The ZX832-2 multisensor represents the next generation of fire detectors that gives an earlier warning of fire or smoke, with the ability to discriminate against false alarms. Fuzzy logic software using multi-criteria sensing form the basis of this intelligent detector.

The detector consists of integrated high sensitivity smoke and thermal sensors. The system combines the dynamic results of rates of change, patterns, and absolute levels of smoke and heat to identify real fire criteria. Selectable software algorithms allows the response to be matched to each particular hazard. Algorithms can change for day/night operation.

The detectors are of low-profile design and plug into either a surface base, or a semi-recessed base. An automatic facility is provided to lock the sensor to its base, requiring a special tool to remove. The sensor contains a built-in LED which illuminates when the detector is in an alarm condition.

An advanced selftest system excites the smoke chamber as though smoke were present, and fully tests the complete sensor as well as communication with the panel.

ZX832-2 detectors are suited to applications requiring the highest level of alarm integrity. Each sensor can protect up to 100 m², subject to room and ceiling design, and local codes. If the detector is intended to be used in thermal-only mode at certain times, then maximum coverage is 50 m².

The ZX832-2 is a standard ZP addressable device, which uses the ZP addressing system. Up to 127 devices can be connected to each ZP address loop. The system automatically compensates each sensor individually for calibration changes caused by dirt, temperature, humidity, voltage fluctuations and long term contamination.

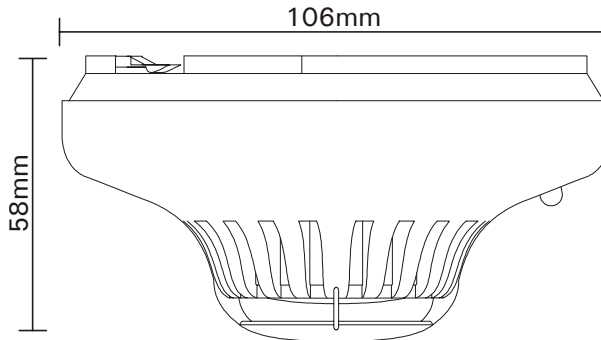


ZX832-2

Intelligent Multisensing Fire Detector

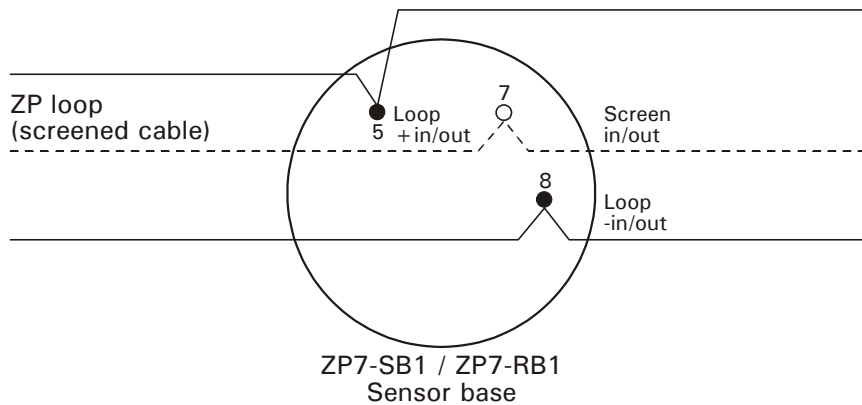
- **Multi-criteria fire sensing**
- **Enhanced detection certainty**
- **False alarm discrimination**
- **Fuzzy logic algorithms**
- **Selectable algorithms**
- **Microprocessor based**
- **Complies with EN54-5 and EN54-7**

Dimensions



Note: Dimensions shown without base.

Wiring Schematic



Specifications



Model No.	Part No.	Specification	Description	Sensitivity
ZX832-2	626AA	EN54 Pt5 and Pt7	Intelligent multisensing fire detector	2.5% OBS / meter
Compatibility	All ZP analogue systems		Environmental:	
Mounting	Plugs into surface or semi recessed base		Application	Indoor use
Area coverage	<i>Smoke element:</i> 100m ² , subject to local codes <i>Thermal element:</i> 50m ² , subject to local codes		EN60529 rating	IP32
Wiring	2 core loop or spur		Temp range	-10°C to +75°C
Monitoring:	Open and short circuit fault. Sensor removal and device type.		Humidity range	20% to 95% RH (non condensing)
Indication	Alarm LED (red)		EMC	CE marked (EEC89/336)
Operating voltage	16-22 volts DC		Construction:	
Current (quiescent)	600µA		Material	Moulded ABS
Current (alarm)	700µA		Dimensions	106mm (Dia) x 58mm (H) (excluding base)
Addressing method	7 way DIP switches in head		Height	From ceiling with base: ZP7-SB1 surface base - 67mm ZP7-RB1 recessed based - 45mm
Detection principle	<i>Smoke:</i> photo electric light scatter <i>Thermal:</i> thermistor		Colour	White
			Weight	105g (without base)

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