



PS1110.1

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.

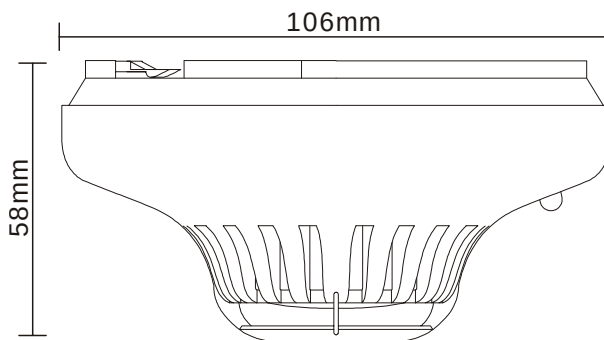


ZX832-2

Intelligent Multisensing Fire Detector

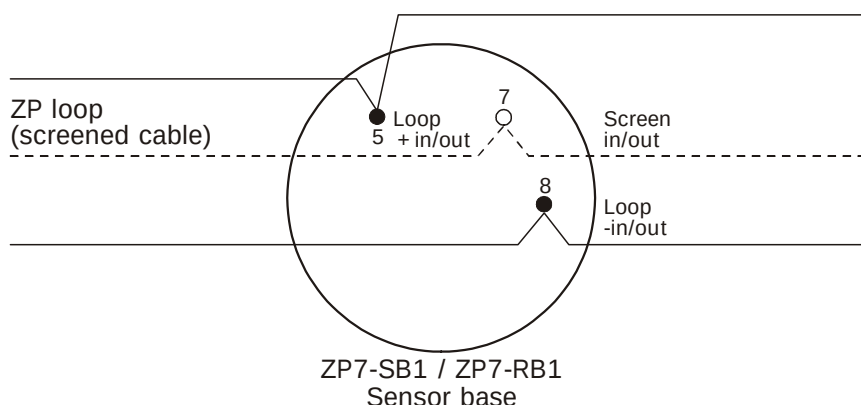
- Multi-criteria fire sensing
- Enhanced detection certainty
- False alarm discrimination
- Fuzzy logic algorithms
- Selectable algorithms
- Microprocessor based
- Complies with EN54-5 and EN54-7

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			
Mounting	Plugs into surface or semi recessed base			
Area coverage	<i>Smoke element:</i> 100m ² , subject to local codes <i>Thermal element:</i> 50m ² , subject to local codes			
Wiring	2 core loop or spur			
Monitoring:	Open and short circuit fault. Sensor removal and device type.			
Indication	Alarm LED (red)			
Operating voltage	16-22 volts DC			
Current (quiescent)	600µA			
Current (alarm)	700µA			
Addressing method	7 way DIP switches in head			
Detection principle	<i>Smoke:</i> photo electric light scatter <i>Thermal:</i> thermistor			
Environmental:				
Application	Indoor use			
EN60529 rating	IP32			
Temp range	-10°C to +75°C			
Humidity range	20% to 95% RH (non condensing)			
EMC	CE marked (EEC89/336)			
Construction:				
Material	Moulded ABS			
Dimensions	106mm (Dia) x 58mm (H) (excluding base)			
Height	From ceiling with base:			
	ZP7-SB1 surface base			- 67mm
	ZP7-RB1 recessed based			- 45mm
Colour	White			
Weight	105g (without base)			

Ziton Ltd
8 Newmarket Court Chippenham Drive Kingston Milton Keynes MK 10 0AQ United Kingdom
Telephone +44 (0) 1908 281981 Fax +44 (0) 1908 282554 email ziton.uk@ziton.com
Ziton (Pty) Ltd
Ziton House 555 Voortrekker Road Maitland 7405 PO Box 4965 Cape Town 8000 South Africa
Telephone +27 (0)21 506 6000 Fax +27 (0)21 506 6100 email ziton.sa@ziton.com

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