



## ZX832-3P

### ZP7 Series Addressable Multisensing Fire Detector (POLAR WHITE)

#### General

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The ZX832-3P is a POLAR WHITE, addressable optical/heat multi criteria detector for Ziton addressable fire alarm systems. The ZX832 multisensor represents the next generation of fire detectors giving 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 advanced optical and heat 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 allow the response to be matched to each particular hazard. Algorithms can change for day/night operation.

#### Advanced self test facility

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Units are of low-profile design and plug into either a surface, or a semi-recessed base. An automatic facility is provided to lock the detector into its base, requiring a special tool to remove. The ZX832 contains a built-in LED that illuminates when the detector is in an alarm condition.

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

X832 detectors are suited to applications requiring the highest level of alarm integrity. Each detector can protect an area up to 100m<sup>2</sup>, 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 area is 50m<sup>2</sup>.

#### Automatic calibration

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The ZX832 is a standard ZP7 addressable device that uses the ZP7 addressing system. Up to 127 devices may be connected to each ZP7 address loop. The system automatically compensates each sensor individually for calibration changes caused by dirt, temperature, humidity, voltage fluctuations and long term contamination.



#### Standard Features

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- Multi-criteria fire sensing
- Enhanced detection certainty
- False alarm discrimination
- Fuzzy logic algorithms
- User selectable algorithms
- Microprocessor based
- EN54:5 and 7 approved, and CPR certified

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### Specifications

Compatibility	ZP7 compatible, addressable systems
Mounting	Plugs into surface or semi recessed base
Operating voltage	19.5 to 20.5V, max. line loss 4V
Current consumption	
Quiescent	600µA
Alarm	700µA
Wiring	2 core loop or spur
Monitoring	Open/short circuit, removal & device type
Addressing method	7 way dipswitch
Detection principle	
Smoke	Photo electric light scatter
Heat	Thermistor
Area coverage (subject to local codes)	
Optical	100m <sup>2</sup>
Temperature	50m <sup>2</sup>
Indication	Alarm LED (red)
Environmental	
Application	Indoor installation
IP rating	IP32
Operating temperature	-10°C to +85°C
Storage temperature	-20°C to +70°C
RH range (noncondensing)	20 to 95%
Physical	
Dimensions (dia x h)	106 x 58mm
Weight	105g (excluding base)
Material	Moulded ABS
Colour	Polar White
EMC	CE marked (EEC89/336)

### Ordering Information

Part No.	Description
ZX832-3P	ZP7 Series Addressable Multisensing Fire Detector (POLAR WHITE)
ZP7-IB-P	ZP7 Series Addressable Detector Isolator Base - POLAR WHITE
ZP7-RB1-P	ZP7 Series Addressable Detector Base, Recessed Mounting - POLAR WHITE
ZP7-SB1-P	ZP7 Series Addressable Detector Base, Surface Mounting - POLAR WHITE
Z-RL3	Remote LED unit - square base with FIRE text
Z-RL4	Remote LED unit - square base

