# ZX832-3B

## Addressable Multisensor (Optica/heat)

### General

The ZX832-3B is a BLACK, addressable optical/heat multi criteria detector for Ziton ZP7 compatible 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

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.

ZX832 detectors are suited to applications requiring the highest level of alarm integrity. Each detector can protect and area up to 100m², 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 50m².

### Automatic calibration

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.

### Details

- 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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## Technical specifications

### General

| | |
|---|---|
| Status indication | Alarm LED (red) |
| Compatibility | ZP7 addressable systems |
| Addressing method | DIP Switches |

### Electrical

| | |
|---|---|
| Power supply type | Loop powered |
| Operating voltage | 19.5 to 20.5 V<br>4 V (Max. line loss) |
| Current consumption | 600µA (Quiescent)<br>700µA (Alarm) |

### Detection

| | |
|---|---|
| Detection principle | Smoke & Heat |
| Sensitivity | Configurable |
| Coverage area | 100m² (Optical)<br>50m² (Heat) |

### Output

| | |
|---|---|
| Output type and rating | Remote indicator |
| Remote alarm output | Yes |

### Physical

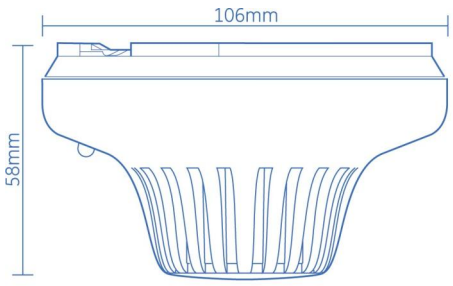
| | |
|---|---|
| Physical dimensions | 106 x 58mm |
| Net weight | 105g (excluding base) |
| Colour | Black |
| Mounting type | Base mount, Ceiling mount, Recessed mount |
| Material (body) | Moulded ABS |

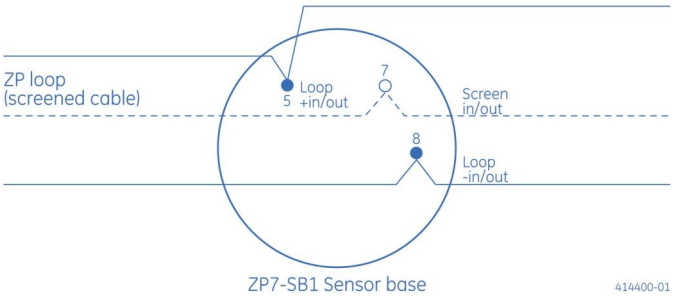
### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10ºC to +85ºC |
| Storage temperature | -20ºC to +70ºC |
| Relative humidity | 20 to 95% |
| Environment | Indoor |
| IP rating | IP32 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Standards | EN54-5, EN54-7 |

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