

Multi-Mode Detector FXN922



red LED, fire condition



amber LED, smoke sensing fault



flashing amber LED, wiring fault



FXN922 multi-mode detector

Overview

The JSB Bi-Wire multi-mode detector has a dual patent, and incorporates both Bi-Wire and 'Self-Check' features, as well as having 5 different modes within a single detector.

This multi-mode detector can be configured to operate as either an optical detector, opto/heat multi-sensor or 1 of 3 heat detector modes (A1R, BS, CS) using the four position switch located at the back of the detector.

The detector, having 'Self-Check' facilities, has a dual LED indicator. The red LED is lit continuously to indicate alarm condition, the amber LED when lit continuously indicates a smoke sensing chamber fault or that the detector has reached the limit of its contamination compensating ability.

The amber LED can also be pulsed from the panel to locate wiring faults thereby saving time and cost by facilitating the fault finding process.

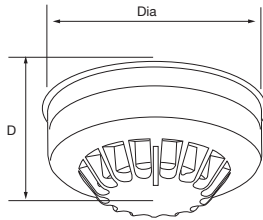
Features

- Chamber monitoring and drift compensation dual LED
- 'Self-Check' facility
- 360° viewable LED design

Benefits

- 5 modes in 1 detector
- Unobtrusive design
- Common mounting base
- Improved system integrity

Dimensions

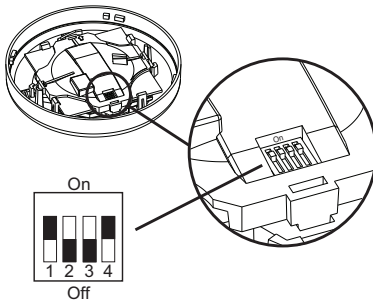


| Description | Dia (mm) | D (mm) (excl base) | D (mm) (incl base) |
|-------------|----------|-----------------------|-----------------------|
| Detector | 104 | 42 | 55 |

Technical Specification

| | |
|---|------------------------------|
| Code | FXN922 |
| Description | Bi-Wire multi-mode detector |
| Standards | EN54 Pt5 & Pt7 2000: A1 2002 |
| Specification | |
| Operating Voltage | 15V dc to 30V dc |
| Standby Current | 70µA |
| Startup Current (for 20s max) | 340µA |
| Alarm Current | 25mA (max) |
| Heat Detector Class (as define by EN54-5:2000) | A1R, BS, CS programmable |
| Alarm Temperature (static) | 60°C A1R, 77°C BS, 92°C CS |
| Visual Indication | Red (alarm) Amber (fault) |
| Environmental | |
| Operating Temperature | -10°C +50°C |
| Humidity (Non Condensing) | 0 to 93% RH |
| Physical | |
| Construction | PC/ABS |
| Colour | White |
| Dimensions | |
| Excluding Base (H x Dia) | 42mm x 104mm |
| Including Base (H x Dia) | 55mm x 104mm |
| Weight (excluding base) | 78g |
| Ingress Protection | IP40 |
| Compatibility | |
| Suitable for use with | JSB Bi-Wire fire systems |

Switch Settings



| Description | SW1 | SW2 | SW3 | SW4 |
|----------------|-----|-----|-----|-----|
| Opto | - | OFF | OFF | OFF |
| Opto / Heat | - | OFF | OFF | ON |
| Rate of rise | - | ON | OFF | OFF |
| Fixed heat BS | - | ON | OFF | ON |
| Fixed heat CS | - | ON | ON | OFF |
| HMO | ON | - | - | - |
| Latching alarm | OFF | - | - | - |

Installation

1. Detectors are fixed and wired via common mounting base.
2. Cable entry into base can be rear or side.
3. A locking facility is provided which can be activated if required to prevent unauthorised detector removal without the use of a special tool.
4. Positive click mechanism incorporated to provide clear indication when detector is correctly located in base.

Note: For wiring information please see FXN520 base

User Interface

1. Red LED to indicate alarm condition.
2. Amber LED to indicate chamber fault/drift compensation limit
3. All wiring connections are via a common mounting base (supplied separately).

Product Codes

| Code | Description |
|--------|-----------------------------|
| FXN922 | Bi-Wire multi-mode detector |