Carrier

ZR432-2P

ZX432-2P RADIO DUAL OPTICAL/HEAT DETECTOR /W ZR401-3 BASE & BATTERY PACK (POLAR WHITE)

General

The ZR432-2P is a wireless, POLAR WHITE addressable multisensor capable of operating in optical, temperature or multisensor, optical/heat modes.

Fast response to a wide range of fires

Designed to provide the earliest response to a wide range of fire types in locations where hard wiring is not an option, ZR432-2 detectors combine optical smoke sensing and thermal monitoring to provide an accurate warning of fire. Smoke sensing may be isolated for areas where ambient smoke may exist at certain times of the day, or used on a day night basis in premises where heat only is required whilst the building is occupied.

Detector control

The ZR432-2 detector is controlled from the main control panel via a loop wired radio interface module allowing both wireless and hardwired devices to be seamlessly located and controlled from the same wiring loop. Every wireless device controlled through the radio loop module, is assigned its own IDENT address with which the main control panel communicates, providing the same system facilities as directly wired devices.

System operation

Temperature and smoke sensitivity may be set by a selection of switches located in the base of the ZR432-2. Calibration and self-testing are carried out automatically.

Removal or replacement of an incorrect sensing devices are identified by the system and details displayed at the main control panel. Sophisticated auto contamination adjustment compensates for any long-term drift in performance caused by dirt entering the sensing chamber.

For ease of removal, ZR432-2 detectors plug into the radio base by a simple twist and lock action.

Certification

The ZR432-2 temperature response meets the requirements of European Standard EN54 Part 5 (settable to class A or class B), with smoke sensitivity complying with EN54 Part 7. The ZR432-2 is approved to EN54:5, EN54:7 and EN54:25, and carries CPD certification.

Details

- No external aerials
- Dual battery supply
- Full device status monitoring – power sources, head removal and device tamper
- Senses both smoke and heat

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Technical specifications

General

Wireless frequency	868 MHz

Electrical

Operating voltage	3 VDC

Physical

Physical dimensions	106 x 75 mm (including base) (Ø x H)
Net weight	350 g (including base & batteries)
Colour	Polar white
Mounting type	Surface mount
Material (body)	Moulded ABS

Environmental

Operating temperature	-10°C to +60°C
Storage temperature	-20 to +70°C
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP32

Standards & regulation

Certification	EN54-25, EN54-5, EN54-7

Specification

	EN54:5/7/25

Description

	Radio Multisensor (Optical/Heat)

Approval

	CPD Certified

Compatibility

	All ZP addressable systems via RLM

Area coverage*

	Smoke element - <100m²
	Heat element - < 50m²

Monitoring

	Continuously self-checking

Detection principle

	Smoke element - Photoelectric light scatter
	Heat element - Thermistor

Addressing method

	Unique address embedded

Indication

	Red alarm LED

Power supply

	Batteries in base