ZR432-2P

Ziton series optical/heat detector with ZR401-3P wireless base & battery pack, polar white

General

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

Details

- No external aerials improves aesthetics
- Dual battery supply with up to 5 year battery life
- Full status monitoring – batteries, head supervision and tamper
- Multifunctional, configurable for smoke only, heat ony of both smoke and heat
- 2-way wireless communication with variable power output
- Configurable sensitivity setting
- ETSI 300-220 approved

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Technical specifications

General

Status indication	Red alarm LED
Wireless frequency	868 MHz
Compatibility	Ziton wireless systems
Connectivity	Wireless 868 MHz
Addressing method	Electronic, Unique address embedded

Electrical

Power supply type	Batteries
Batteries	3 x AA (MN1500 LR6) Duracell alkaline batteries 3 x C (MN1400 LR14) Duracell alkaline batteries
Operating voltage	3 VDC
Output transmitter power	0 to 14 dBm

Detection

Detection principle	Smoke element - Photoelectric light scatter, Heat element - Thermistor
Monitoring	Continuously self-checking
Sensitivity	Configurable
Coverage area	Smoke element <100 m², Heat element < 50 m², Subject to local regulations
Alarm temperature (maximum)	+70°C
Alarm temperature (minimum)	+54°C

Physical

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

Environmental

Vandal proof	No
Operating temperature	-10 to +55°C
Storage temperature	-20 to +70°C
Application temperature (maximum)	+50°C
Application temperature (typical)	+25°C
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP32

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54:5, EN54:7, EN54:25, ETSI 300-220

Compatible products

Category	Reference	Description
Detection device	11510-ZT	ZPL1-1 address label 1001-1127
Detection device	11520	ZPL1-2 Add.Label 2001-2127
Detection device	11530-ZT	ZPL1-3 address label 3001-3127
Detection device	11540-ZT	ZPL1-4 address label 4001-4127



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Last updated on 23 February 2026 - 17:05