



ZR430

Radio optical smoke sensor

Early response to slow burning fires

Designed to provide smoke detection on ZP3 systems, where the installation of hard wiring is not an option, the ZR430 wireless optical smoke sensor provides an early response to slow burning fires. The unit is controlled directly from the main control panel, via a loop wired radio interface module. This arrangement allows both wireless and hardwired devices to be seamlessly located on the same loop wiring.

Operating on light scatter principles, the ZR430 fully meets the requirements of European Standard EN54 Part 7.

Four sensitivity levels

Installed as part of the ZP3 analogue addressable system, up to 127 devices can be connected to each of the control panel loops.

Each wireless device is assigned its own IDENT address, with which the main control panel communicates, providing the same system facilities as for directly wired devices.

False and unwanted alarms are virtually eliminated – smoke levels are continuously sensed by the unit and transmitted to the radio loop module, which in turn relays the data to the main control panel.

Four levels of sensitivity can be set, by selection switches on the sensor base plate. Calibration and self-test are carried out automatically. Removal or replacement of an incorrect sensing device is 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.

Plug in base

For ease of removal sensors plug into the ZR400 radio base by a simple twist and lock action. Bases are installed using a matching fixing plate.

A red LED indicator situated on the sensor moulding flashes to indicate when the unit is in alarm.



Standard Features

- No external aerials
- Dual battery supply
- Four sensitivity levels
- Full device status monitoring – power sources, head removal and device tamper
- Responds to slow burning fires

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Specifications

Model No	ZR430
Specification	EN54 Pt7
Description	Radio optical smoke sensor
Approval	R&TTE to ETS300-220
Operating frequency	VHF 173.245 MHz
Compatibility	All ZP3 analogue systems via ZR740 loop module
Mounting	Plugs into surface base
Area Coverage	100m ² - subject to local codes
Monitoring	Continuously self checking
Indication	Alarm LED (red)
Detection principle	Photo electric light scatter
Operating voltage	3.2 Volts dc (Alkaline batteries)
Power supply	In base (see PS1492)
Addressing method	Unique address embedded in firmware
Application	Indoor installation
EN60529 rating	IP32
Temperature range	-10°C to +70°C
Humidity range	20% to 95% RH (non condensing)
EMC	CE marked (EEC89/336)
Material	Moulded ABS
Dimensions	106mm (Dia) x 52mm (H) (excluding base)
Height - with ZR401 surface base	82.7mm
Colour	White
Weight	105g (excluding base)
Publication No	PS1489

Ordering Information

Part No.	Description
ZR430	Radio optical smoke sensor