

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.

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.

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.



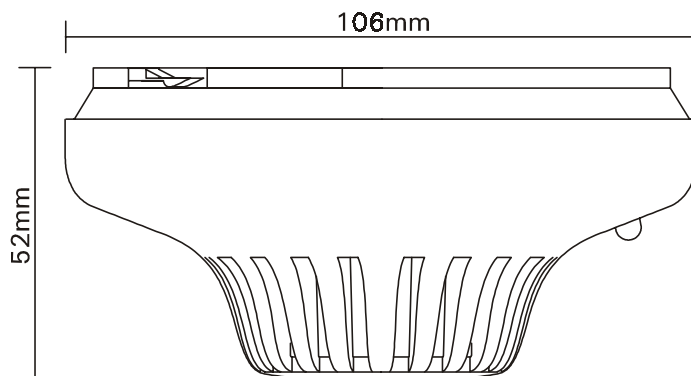
## ZR430

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### Wireless Optical Sensor

- **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**

# Dimensions



990664.cdr

Note: Dimensions shown without base.

# Specifications



Model No.	Part No.	Specification	Description
ZR430	42600	EN54 Pt7	Wireless optical smoke sensor
Approval	R&TTE to ETS300-220		<b>Environmental:</b>
Operating frequency	VHF 173.245 MHz		Application Indoor use
Compatibility	All ZP3 analogue systems via ZP740 loop module		EN60529 rating IP32
Mounting	Plugs into surface base		Temp range -10°C to +75°C
Area coverage	100m <sup>2</sup> , subject to local codes		Humidity range 10% to 95% RH (non condensing)
<b>Monitoring:</b>	Continuously self checking		EMC CE marked (EEC89/336)
Indication	Alarm LED (red)		<b>Construction:</b>
Operating voltage	3.2 volts DC (Alkaline batteries)		Material Moulded ABS
Power supply	4 x 3.7 volt lithium TCL AA cells		Dimensions 106mm (Dia) x 52mm (H) (excluding base)
Addressing method	Unique address embedded in firmware	Height	From ceiling with base: ZR401 surface base – 82.7mm
Detection principle	Photo electric light scatter	Colour	White
		Weight	105g (without base)

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