COOPER Safety

radio+

The Radio+ system offers fast and simple installation with reduced disruption, saving on traditional costs like fire resistant cable, whilst cutting down on labour. Flexible configuration makes it an ideal choice for temporary structures, whilst the speed of installation is ideal for time limited situations such as schools and hospitals. Radio+ minimises disruption to decor reducing disturbance to heritage projects and areas with difficult cable routes or limited access.

Over 3 years battery life

While wireless control panels and boosters operate from a battery backed mains supply (which is designed to comply with the latest EN54 Part 4) the true economy and reliability of the wireless fire system is highly dependant on the cost and availability of the batteries used in the various field devices.

The Radio+ system incorporates a number of innovative design features that enables battery life in excess of 3 years, from readily available, across the counter, standard AA cells. Battery monitoring functions ensure that early warning of any low battery conditions is signalled and can therefore be co-ordinated with normal maintenance procedures.

Battery replacement is economic and simple.

Radio+ wireless sensor

Radio+ wireless sensor / sounder / beacon

Overview

The sensors have been developed specifically to operate with the Radio+ wireless fire system.

These wireless sensors are designed to comply with EN54 Pt 5 & 7 and are based on multi-sensor technologies using combinations of optical smoke detection and both fixed temperature and rate of rise heat detection.

These elements can be selected to provide optimum detection of all types of fire and operating conditions.

Features

Detector
- 3 x Standard AA Lithium batteries
- Long battery life
- Anti tamper protection
- Concealed antennas
- Multi-sensor technology combining optical smoke detection and configurable heat detection (fixed, rate of rise and high temperature)
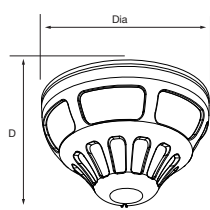- Drift compensation
- First fix base

Detector AV
- 3 x Standard AA Lithium batteries
- Long battery life
- Anti tamper protection
- Concealed antennas
- Highly visible LED beacon
- Alarm sounder
- 3 Volume settings
- 3 Tones

Benefits

- Eliminates cabling difficulties
- Minimises disruption
- Preserves aesthetics
- Speedy installation

Fulleon

Dimensions

H (mm)	Dia (mm)
78	114

Technical Specification

Description	Detector / Detector AV
Standards	EN54-25 components using wireless links
	EN54-5 & 7
Description	
Battery	3 x AA Lithium (4.5 V). 3000 mAhr (min)
Frequency Band	868 MHz
Tones	**750 Hz steady (BS fire tone) -**
	dB(A) min 70, med 80, high 90
	500 - 1200 Hz 3.5s sweep, 0.5s silence, then
	repeat (Dutch fire tone) -
	dB(A) min 70, med 80, high 90
	750 - 880Hz 2Hz (250ms -250ms)
	(BS fire tone) -
	dB(A) min 70, med 80, high 90
Environmental	
Operating Temperature	-10°C to +55°C
Humidity (Non Condensing)	0 to 95% RH
Physical	
Construction	PC/ABS
Colour	White
Dimensions (Dia x D)	114mm x 78mm
Weight	0.3kg
Ingress Protection	IP21C
Compatibility	
Suitable for use with	Radio⁺ Intelligent addressable wireless fire systems

Batteries
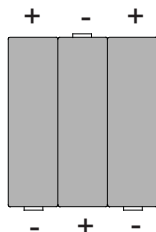
FOR OPTIMUM RESULTS ONLY USE SPECIFIED BATTERIES ENERGIZER L91 ULTIMATE LITHIUM

Battery Installation
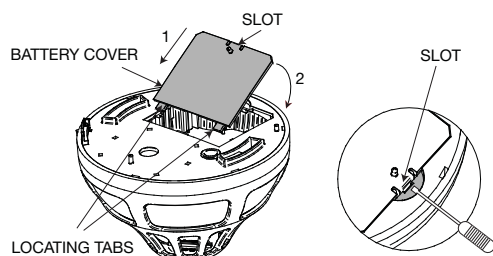
1. To insert battery cover, follow steps 1 and 2.
2. To remove, insert terminal screw driver into slot.

Installation

1. First fit the mounting base in the desired position. (set by survey).
2. Check that the sensors switches are set to the appropriate positions to give the correct detection characteristics.
3. Fit the three batteries into the detector. (as per commission requirements)
4. Present the detector to the base, aligning the pips on the detector and base to achieve correct orientation and then twist clockwise until the sensor slots onto the base and cannot be turned any further.
5. Dust covers must be removed before the system is commissioned.

Switch Settings

Sensor Setting	SW1	SW2
Opto Only	ON	ON
Opto-Heat (fixed)	ON	OFF
Heat (A1R) 66°C	OFF	ON
Heat (BS) 77°C	OFF	OFF

Product Codes

Code	Description
DET/W/R+	Wireless sensor
DET/W/AV/R+	Wireless sensor / sounder / beacon

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