

Sensors CWD910 and CWDB920

Batteries

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 CW9000 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 therefore both economic and simple.



CWD910 wireless sensor, CWDB920 wireless sensor / sounder / beacon



Overview

The CWD910 and CWDB920 wireless sensors have been developed specifically to operate with the Cooper 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

CWD910

- 3 x Standard AA 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

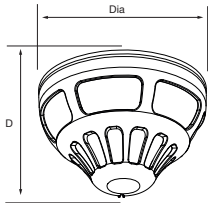
CWDB920

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

Benefits

- Eliminates cabling difficulties
- Minimise disruption
- Preserve aesthetics

Dimensions



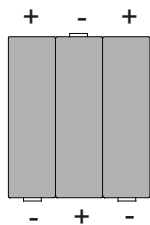
CWD910 / CWD920

Description	Dia (mm)	D (mm)
CWD910	114	78
CWDB920	114	78

Technical Specification

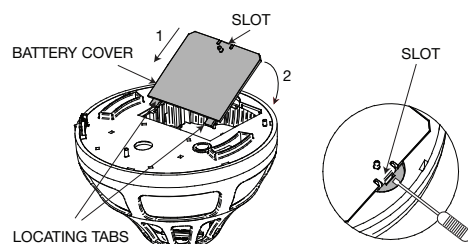
Code	CWD910 and CWDB920
Description	CWD910 - Wireless sensor CWDB920 - Wireless sensor / sounder / beacon
Standards	EN45 Pt 25 components using wireless links EN54 Pt 5 & 7
Description	
Battery	3 x AA Lithium (4.5 V), 3000 mAh (min)
Wireless Frequency	868 MHz
Tones	750 Hz steady (BS fire tone) - dB(A) 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	Intelligent addressable wireless fire systems

Batteries



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 pins 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	ON	OFF
Heat (A1R) 66°C	OFF	ON
Heat (BS) 77°C	OFF	OFF

Product Codes

Code	Description
CWD910	Wireless sensor
CWDB920	Wireless sensor / sounder / beacon