

## Sensors



CWD910 - Wireless Sensor / CWDB920 - Wireless Sensor Sounder Beacon

### Overview

The wireless sensor (CWD910) and wireless sensor sounder beacon (CWDB920) are designed to comply with EN54 Pt5 & Pt7.

Both the (CWD910) and the (CWDB920) are compatible with the Cooper wireless fire system.

These units are based on multi-sensor technologies and use combinations of optical smoke detection, 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

- 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

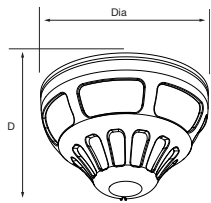
#### Additional Features CWDB920

- Highly visible LED beacon
- Alarm sounder
- 3 Volume settings
- 4 Tones

### Benefits

- Single sensor solution
- Eliminates cabling difficulties
- Minimise disruption
- Helps preserve building aesthetics

## Dimensions



CWD910 / CWDB920

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

## Technical Specification

Code	CWD910 / CWDB920
Description	CWD910 - Wireless sensor CWDB920 - Wireless sensor sounder beacon
Standards	EN45 Pt25 components using wireless links EN54 Pt3, EN54 Pt5 & EN54 Pt7
<b>Description</b>	
Battery	3 x AA Lithium (4.5V) 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
<b>Environmental</b>	
Operating Temperature	-10°C to +55°C
Humidity (Non Condensing)	0 to 95% RH
<b>Physical</b>	
Construction	PC/ABS
Colour	White
Dimensions (Dia x D)	114mm x 78mm
Weight	0.3kg
Ingress Protection	IP21C
<b>Compatibility</b>	
Suitable for use with	Cooper Wireless Fire Systems

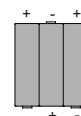
### Batteries

While wireless control panels and boosters operate from a battery backed mains supply (which is designed to comply with the latest EN54 Pt4) 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 wireless 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.

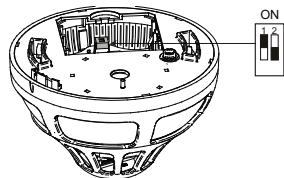
Battery replacement is therefore both economic and simple.

## Battery Layout



**Specified Battery**  
Energizer L91 ultimate lithium

## Sensor Switch Settings

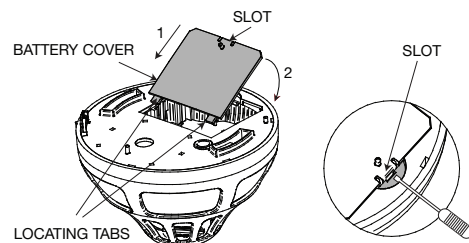


Sensor Setting	SW1	SW2
Opto Only	ON	ON
Opto-Heat	ON	OFF
Heat (A1R) 66°C	OFF	ON
Heat (BS) 77°C	OFF	OFF

## Installation

1. First fit the mounting base in the desired position. (Set by the survey).
2. Check that the sensors switches are set to the appropriate positions to give the correct detection characteristics. (See switch settings).
3. Fit the 3 batteries into the sensor. (As per commission requirements).
4. Present the sensor to the base, aligning the pips on the sensor 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.

## Battery Installation



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

## Product Codes

Code	Description
CWD910	Wireless Sensor
CWDB920	Wireless Sensor Sounder Beacon

Descriptions represent only particulars of the goods to which they apply and do not form part of any contract. The company reserves the right to change specification without prior notification or public announcement.