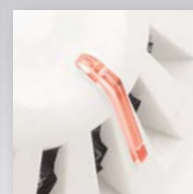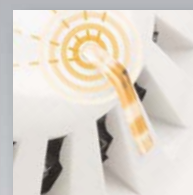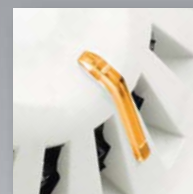# Fire

DATA SHEET

Bi-Wire Multi-Mode Detector
UBMSBW / FXN922

COOPER

MENVIER

Jsb

Cooper has introduced a new range of Bi-Wire detectors consisting of a new revolutionary dual patent, multi-detector which incorporates both Bi-Wire and Self-Check features, as well as having 5 different modes within a single detector.

This new conventional detector can be configured to operate as either an optical detector, opto/heat multi-sensor or 1 of 3 heat detector modes (A1R, BS, CS) using the four position switch located at the back of the sensor.

The detector, having self check facilities, has a dual LED indicator. The red LED is continuous to indicate alarm condition, the yellow LED is lit continuously to indicate a smoke sensing chamber fault or that the detector has reached the limit of its contamination compensating ability.

This LED can also be pulsed from the panel to locate wiring faults thereby saving time and cost by facilitating the fault finding process.
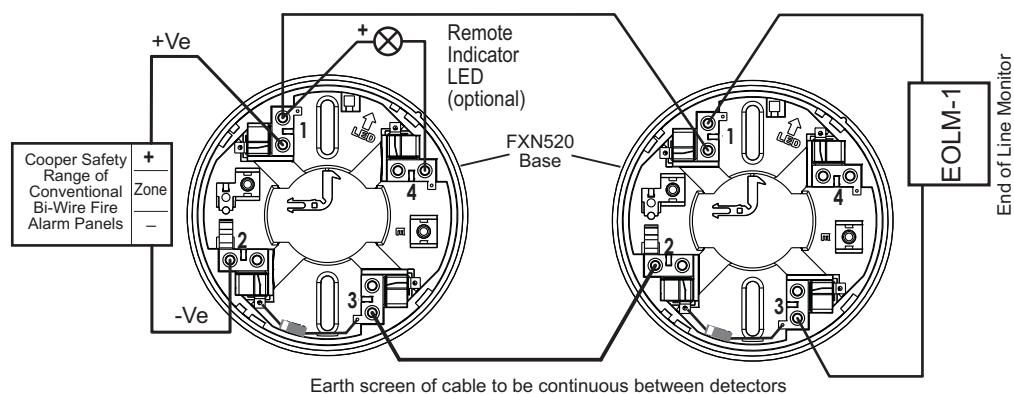
Benefits and Features

> Chamber monitoring and drift compensation dual LED

> 5 modes in 1 detector

> Self-Check facility

> 360° viewable LED design
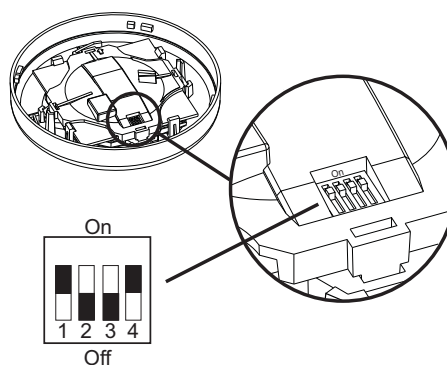
> Common mounting base

Technical Specifications

Model	UBMSBW / FXN922
Description	Bi-Wire multi-mode detector
Heat detector class (as define by EN54-5:2000)	A1R, BS, CS programmable
Operating voltage	15 to 30 Volts
Standby current	70µA
Start up current (for 20s max)	340µA
Alarm current (max)	25mA
Ambient temperature (min and max)	-10°C +50°C
Visual indication	Red (alarm) Yellow (fault)
Alarm temperature (static)	60°C A1R, 77°C BS, 92°C CS
Physical	
Construction	PC/ABS
Colour	White
Dimensions	
excluding base (H x Dia)	42mm x 100mm
including base (H x Dia)	55mm x 104mm
Weight (excluding base)	78g

Wiring Diagram - Bi-Wire Standard Base

Earth screen of cable to be continuous between detectors

Switch Settings - Bi-Wire Multi-Mode Detector

Description	SW1	SW2	SW3	SW4
Opto	-	OFF	OFF	OFF
Opto / Heat	-	OFF	OFF	ON
Rate of rise	-	ON	OFF	OFF
Fixed heat BS	-	ON	OFF	ON
Fixed heat CS	-	ON	ON	OFF
HMO	ON	-	-	-
Latching alarm	OFF	-	-	-

On

1 2 3 4

Off

Product Codes

Bi-Wire multi-mode detector	UBMSBW / FXN922
Bi-Wire standard base	CDBB300 / FXN520

COOPER