

# Fire



DATA  
SHEET

## Conventional Beam Detectors

### MBD50R / MBD100R

**COOPER**

The Cooper loop powered reflective beam detectors are specifically designed to function with all Cooper conventional fire control panels.

Two versions are available, one with a range of up to 50 Metres, the other with a range of 50 – 100 Metres. The units are extremely simple to install and require no separate power supply.

#### Benefits and Features

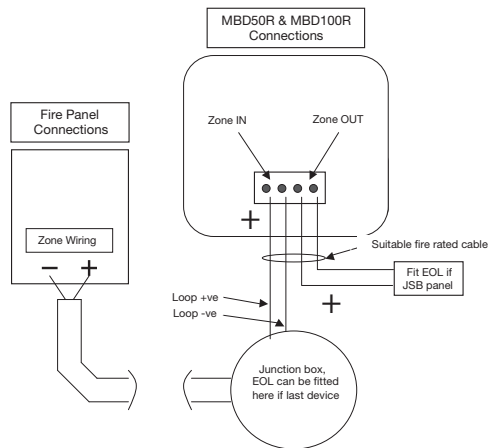
- > No power supply required
- > Simple to install
- > Compact
- > Simple to set up
- > 50 and 100 metre range units



## Technical Specifications

Model	MBD50R	MBD100R
Description		Reflective beam detector
Standards		EN54: Pt 12 & 17; 2002
CPD approval	0786CPD20323	0786CPD203231
Operating range	5 to 50 metres	50 to 100 metres
Supply voltage		18-30V dc
Quiescent current		(no LED's illuminated) <5 mA
Alarm current		<9 mA
Alignment current		<18 mA
Power up time		approx 10 seconds
Tolerance to beam misalignment at 35%		detector $\pm 0.8^\circ$ , Prism $\pm 5.0^\circ$
Fire alarm thresholds		2.50dB (25%) 3.74dB (35%) 6.02dB (50%)
Optical wavelength		880nm
Environmental		-10°C to +55°C
Physical		
Dimensions (W x H x D)		130mm x 210mm x 120mm
Weight		740gm

## Wiring Diagram



## Product Codes

Beam detector 5 to 50 metres	MBD50R
Beam detector 50 to 1000 metres	MBD100R
<b>Accessories</b>	
Wall mount bracket	MRBFP

### Cooper Lighting and Safety

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