

# Analogue Addressable Beam Smoke Detector

## FB-1 (FIREbeam)



### Features

- ▶ Continually corrects itself against building movement
- ▶ Controlled and adjusted from ground level utilising included controller
- ▶ 5 – 40 m standard detection range
- ▶ Extensions kits available to enhance detection range up to 100 m
- ▶ Fully compatible with the Hochiki ESP analogue addressable protocol

### Description

The FB-1 (FIREbeam) is a reflective beam Smoke Detector which features advanced motorised technology allowing it to self-align itself to the centre of the reflector when commissioning. Commissioning is a semi-automatic procedure where the unit aligns itself directly onto the centre of the reflector. Once commissioned the detector continually monitors alignment and will automatically realign itself back to the centre of the reflector if any building movement occurs.

The detector comes with a separate controller unit which allows engineers to commission, monitor and maintain from ground level. Detection range is 40 m for the standard unit, increasing to 80 m or 100 m with the addition of the medium or long-range reflector kits

The FB-1 features an integral loop module allowing full connectivity to the ESP analogue addressable loop.

Specification		
Ordering codes	FB-1 (Detector, Controller & Reflector 5 to 40 m) FB-MK (Mid-Range Reflector Kit 40 to 80 m) FB-LK (Long Range Reflector Kit 80 to 100 m)	
Supply Voltage	17 to 41 V dc	
Supply Current	3 mA (constant current) in all operational states	
Constant Current	17 mA (constant current) in fast commissioning	
Operating Temperature Range	-10 °C to +55 °C	
Operating Humidity	10 to 95% RH Non-condensing	
Ingress Protection Rating	IP65 (when suitably mounted and terminated)	
Optical Wavelength	870 nm	
Maximum Angular Alignment	±5°	
Maximum Angular Misalignment	Beam Head ±0.3 ° Reflector ±2 ° (static not auto-aligning)	
Alarm Sensitivity Levels	25%(1.25 dB) to 50%(3 dB) in 1%(0.05 dB) increments (default 35% (1.87 dB))	
Weight (Kg) / Dimensions (mm)	Detector	1.1 / 180H x 155W x 137D
	Controller	0.55 / 185H x 120W x 62D

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