

Product Code: BD1

Description: 50m Beam Detector, expandable up to 120m with reflective long range kit



General Information

Dimensions (mm)	181 x 130 x 134
Available Operations	Laser Assisted, Auto-alignment, Manual Alignment
Alarm Response Threshold Levels	25% (1.25dB) - Fastest Response to Smoke 35% (1.87dB) - Default Value 55% (3.46dB) - High Immunity to False Alarms, Slow Response to Smoke 85% (8.23dB) - Highest Immunity to False Alarms, Slowest Reponse to Smoke All Configured VIA the Integrated User Interface
Alignment Status Indication	2 Green LEDs and 1 Yellow LED
System Status Indication	Normal Operation - Green LED Flashing Every 10 Seconds Alarm Condition - Red LED Flashing Every 5 Seconds Fault Condition - Yellow LED Flashing Every 10 Seconds for Obscuration of Every 5 Seconds for Contamination
Optical Wavelength - Smoke Detection	850
Optical Wavelength - Laser Alignment (nm)	650 (Class 3R <5mW)
Fault level / Rapid obscuration ($\Delta \leq 2$ Seconds)	$\geq 85\%$
Maximum Angular Alignment of Reflective Detector (°)	± 4.5
Maximum Angular Misalignment of Reflective Detector (°)	± 0.5
Maximum Angular Misalignment of Reflector (°)	± 5
Beam Detection Range (m)	0 to 50, 0 to 120 (With BD1LRK)
Beam Path Clearance (m)	1 in diameter from Detector and Reflector
Weight (Kg)	0.7
Warranty (Years)	3

Supply & Power

Operating Voltage (V DC)	14 - 36
Cable Size (mm²)	0.5 to 1.5
Power Consumption (mA)	<33

Environment

Ingress Protection	IP55
Operating Temperature (°C)	20 to 55
Storage Temperature (°C)	-40 to +85
Relative Humidity Resistance (%)	<93

Supplied Beam Detector

Accessories

Long Range Kit of 4 Reflectors to Increase BD1 Range From 50m to 120m.

Features

Single Piece Reflector Supplied with BD1