

CONVENTIONAL REFLECTIVE- BEAM DETECTOR EST-BD03 1-70M

EST



PRODUCT OVERVIEW

The **EST-BD03** Conventional Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user-friendly alignment method. The Laser beam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it more easy and convenient in alignment commissioning.

The **EST-BD03** has four adjustable operational range of between 8 to 20, 40, 70 and 100 meters beside with three adjustable sensitivity setting ranges from 2.6dB to 4.8dB to meet the specific environmental requirement. The AW-BK901 works on the principle of reflective infrared beam obscuration. Used in conjunction with a reflector, it will notify the fire alarm panel when the infrared beam is obscured by smoke. Secure and quick communication through the onboard processor enables the detector to make its own decision and drift compensation resulting in greater automation.

The **EST-BD03** is ideal for use high ceiling and wide areas such as warehouses, large storages, shopping malls, leisure centres, exhibition halls, hotel lobbies, printing houses, garment factories, museums and prisons, as well as places where slight smoke particles or corrosive gas exist.

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The logo for EST, featuring the letters 'EST' in a bold, red, italicized sans-serif font. Each letter has a thin horizontal line above it.

Feature and Benefits

1. Manufacturing in compliance with EN54-12
2. Hassle free alignment, built with digital guide display and laser beam pointing
3. Employ single-ended design through reflective mirror.
4. Four ranges wide monitoring from 8-100 meters via encoder
5. Three users programming sensitivity adjustment
6. Built-in microprocessor
7. Self-diagnostic function to monitor internal faults
8. Automatic compensation for factors weakening received signals, such as dust intruder, positional movement and aging of the transmitter.
9. Fire and Fault interfacing relays
10. Attractive and pleasing appearance
11. Special user-friendly alignment method

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Technical Parameters

Part Number	EST-BD03		
Standard			
Compliance	EN54-12		
Fire Detection and Alarm Systems	BS 5839 Part 1:2002		
Specification			
Operating Voltage	20 V to 28 V DC		
Current Parameters	Standby:23mA	Commission:40mA	Alarm:33mA
Beam Sensor Sensitivity [via Encoder]	Level 1: 2.6 dB	High Sensitivity	
	Level 2: 3.4 Medium Sensitivity		
	Level 3: 4.8 dB Low Sensitivity		
Beam Pathway Length [via Encoder]	Span 1: 8 to 20 meters Short Path		
	Span 2: 20 to 40 meters Short Path		
	Span 3: 40 to 70 meters Normal Path		
	Span 4: 70 to 100 meters Long Path		
Beam Path Angle	±0.5°Directional		
Alignment Guide	Laser Beam Pointer		
Digital Display Guide	Nixie Tube		
LED Indicator Guide	Red: Fire ; Yellow: Fault ; Green: Alignment		
Reset Time	Less than 2 Second		
Relay Capacity [Fire & Fault]	Normally Open/ 2.0 A; 30 VDC		
Physical			
Material / Colour	ABS / White		
Dimension / Weight	L:190.87 x W:126.87 x H:91.96 mm / 440 gm		
Weight	0.130 Kg with base		
Environmental			
Operating Temperature / Protection	-10°C to 55°C / IP30 [IP66 glue seal]		
Rating			
Humidity	0 to 95% Relative Humidity, Non condensation		

EST