

FIREBEAM-100M

Conventional Reflective Beam Detector



Features and Benefits

- EN54-12:2015 Certified
- LPCB Approved
- Hassle free alignment, built with digital guide display and laser beam pointing
- Employ single-ended design through reflective mirror
- Four ranges wide monitoring from 8-100 meters via encoder or dip switch setting
- Three users programing sensitivity adjustment via encoder or dip switch setting
- Built-in microprocessor
- Self-diagnosis function can monitor for internal faults
- Automatic compensation for factors weakening received signals, such as dust contamination, positional movement and ageing of the transmitter
- Fire and Fault interfacing relays
- Attractive and pleasing appearance
- Real User friendly alignment method



EN 54-12
1330a/01



2831-CPR-F1301
Y20

Overview

FIREBEAM 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 FIREBEAM has four adjustable operational ranges of between 8 to 20, 20 to 40, 40 to 70 and 70 to 100 meters beside with three adjustable sensitivity setting ranges from 2.6dB, 3.8dB and 5.8dB to meet the specific environmental requirement. The span and sensitivity can be adjusted through dip switch setting or handheld programmer. The FIREBEAM 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.

The FIREBEAM 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.

Technical Specification

Standard

Listed	LPCB / CE-CPR
Compliance	EN54-12:2015
Fire Detection and Alarm Systems	BS 5839 Part 1:2017

Specification

Operating Voltage	20 V to 28 V DC
Current Parameters	Standby:23mA Commission:56mA Alarm:33mA
Beam Sensor Sensitivity	Level 1: 2.6 dB High Sensitivity Level 2: 3.8 dB Medium Sensitivity Level 3: 5.8 dB Low Sensitivity
Beam Pathway Length	Span 1: 8 to 20 meters Short Path (1x mirror reflector required) Span 2: 20 to 40 meters Short Path (1x mirror reflector required) Span 3: 40 to 70 meters Normal Path (4x mirror reflector required) Span 4: 70 to 100 meters Long Path (4x mirror reflector required)
On site adjustment	Via TX7930 encoder or 6 position dip switch settings
Beam Path Angle	±0.4° 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 (Power Cut)
Relay Capacity [Fire & Fault]	Normally Open&Close/ 2.0 A; 30 VDC

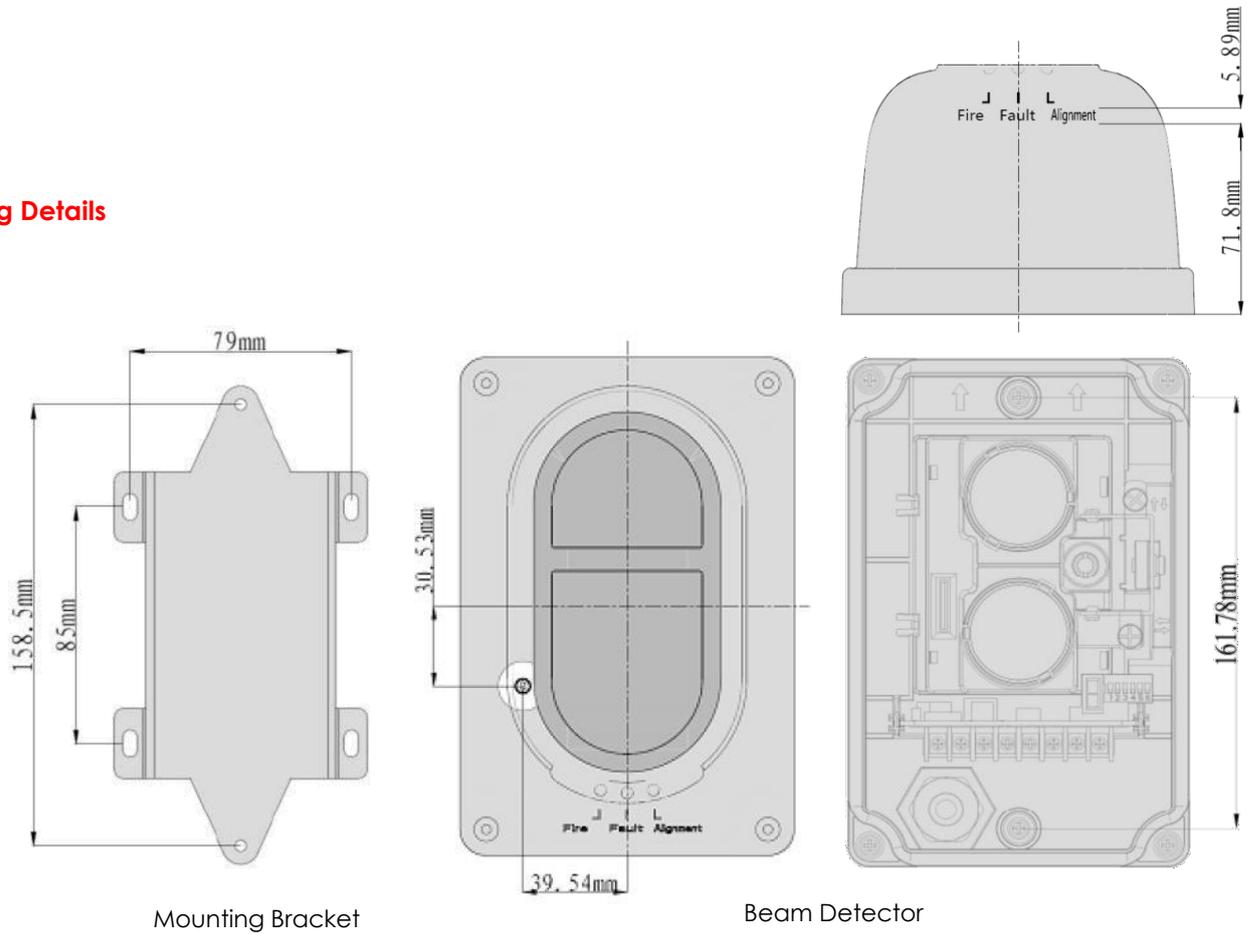
Physical

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
Accessories	Mounting Bracket/ TX7130-R 4 x Mirror Reflector

Environmental

Operating Temperature / Protection Rating	-10°C to 55°C / IP30 [IP66 glue seal-For permanent fixing]
Humidity	0 to 95% Relative Humidity, Non condensing

Mounting Details



Mounting Bracket

Beam Detector

Names and Locations

