

TX7130

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 (TX7930) or dip switch setting
- Three users programing sensitivity adjustment via encoder (TX7930) 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

TX7130 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 TX7130 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 TX7130 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 TX7130 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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TANDA Development Pte.Ltd. | DATASHEET

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Technical Specification

Standard

Listed
Compliance
Fire Detection and Alarm Systems

LPCB / CE-CPR
EN54-12:2015
BS 5839 Part 1:2017

Specification

Operating Voltage
Current Parameters
Beam Sensor Sensitivity

20 V to 28 V DC
Standby:23mA Commission:56mA Alarm:33mA
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)
Via TX7930 encoder or 6 position dip switch settings

On site adjustment

±0.4° Directional

Beam Path Angle

Laser Beam Pointer

Alignment Guide

Nixie Tube

Digital Display Guide

Red: Fire; Yellow: Fault; Green: Alignment

LED Indicator Guide

Less than 2 Second (Power Cut)

Reset Time

Normally Open&Close/ 2.0 A; 30 VDC

Relay Capacity [Fire & Fault]

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

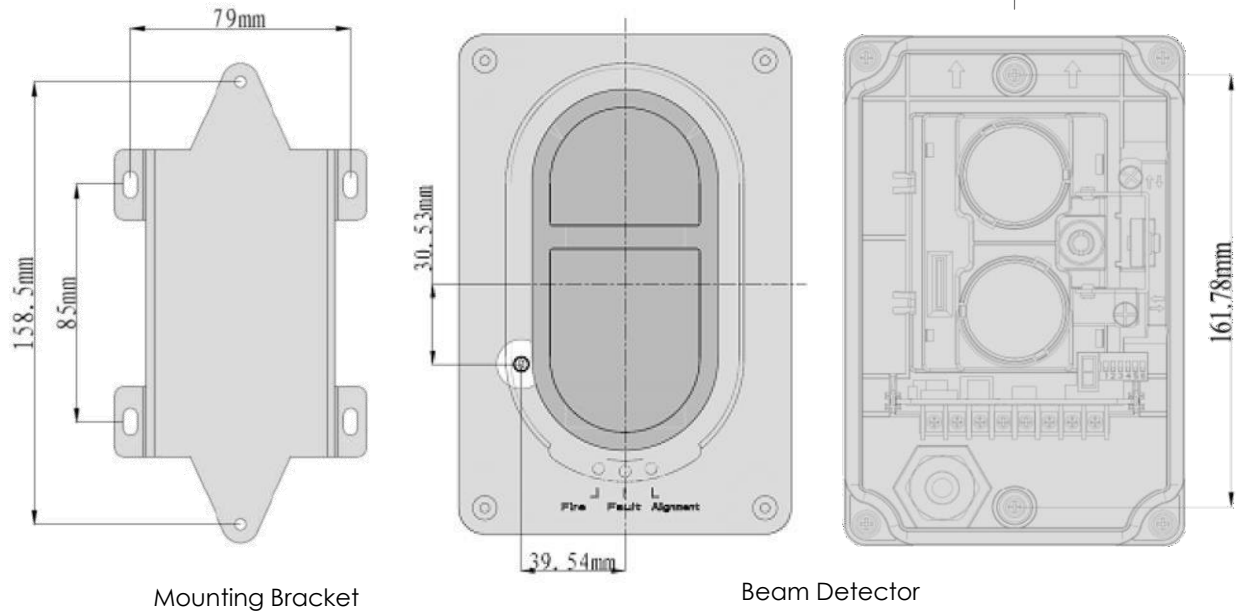
-10°C to 55°C / IP30 [IP66 glue seal-For permanent fixing]

Humidity

0 to 95% Relative Humidity, Non condensing



Mounting Details



Names and Locations

