Tanda fire alarm systems

TX 7130

Infrared Reflective Linear Beam Detector

Model Beam TX7130 is uniquely suited for protecting open areas with high ceilings - areas where other methods of smoke detection are difficult to install and maintain.



Main Features

- Manufacture in compliance with EN 54-12
- 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
- Three users programming sensitivity adjustment
- 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



The Laser beam pointing accurately point the exact location where to mount mirror



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 range of between 8 to 20, 40, 70 and 100 meters beside with three adjustable sensitivity setting ranges from 2.6 dB to 4.8 dB to meet the specific environmental requirement. 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. Secure and quick communication through the onboard processor enables the detector to make its own decision and drift compensation resulting in greater automation.

The TX7130 is ideal for use at the wide areas with high ceiling 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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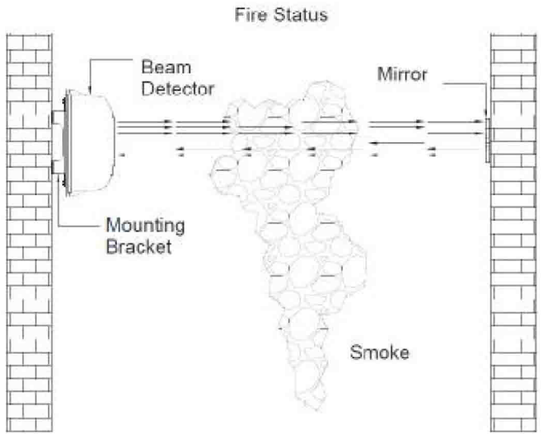
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Technical Specifications

Part Number	TX7130
Standard	
Listed	LPCB Pending
Compliance	EN 54-12
Fire Detection and Alarm Systems	BS 5839 Part 1:2002
Specification	
Operating Voltage	20 V to 28 V DC
Current Parameters	
	Standby≤28mA
	Commission≤56mA
	Alarm≤38mA
Beam Sensor Sensitivity [via Encoder]	
	Level 1: 2.6 dB High Sensitivity
	Level 2: 3.4 dB 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	±0.5º 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 / Color	ABS / White
Dimension	L:190.87 x W:126.87 x H:91.96 mm
Weight	0.130 Kg with base
Environmental	
Operating Temperature / Protection Rating	-10°C to 55°C / IP30 [IP66 glue seal]
Humidity	0 to 95% Relative Humidity, Non condensation

Indication of Detector Status

- Red Led (Fire) is illuminates when at least one fire alarm event occur
- Yellow Led (Fault) illuminates when at least one fault alarm even occur in the Detector
- Green Led (Alignment) illuminates during the commissioning



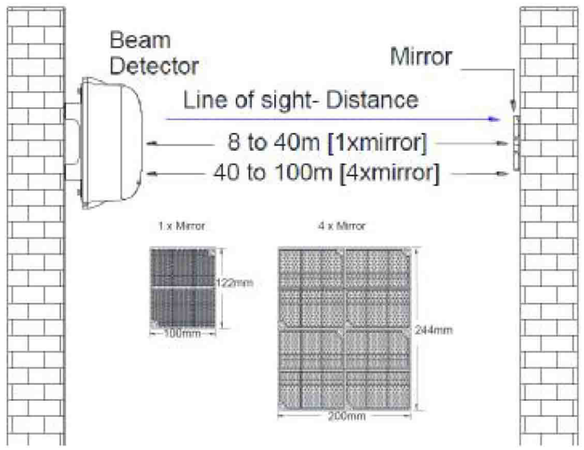
Mounting the Detector

Cables should be brought into the detector using the supplied glad cable. The maximum size of the cable which can be terminated is 1.5mm2. Observe the polarity.

1. Terminal D1 (+) and D2 (-) for connecting Power supply [24VDC]
2. Terminal S1 and S2 for connecting handheld programmer
3. Terminal HJ1 and HJ2 for connecting Fire signal relay output [Normally Open]
4. Terminal GZ1 and GZ2 for connecting Fault signal relay output [Normally Close]

D2 D1 S2 S1 HJ2 HJ1 GZ2 GZ1





Detector Details

