

## Conventional Reflective Beam Detector



### Overview

DX7130 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 DX7130 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 DX7130 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.

#### 1 Feature and Benefits

- EN54-12 Compliance
- Hassle free alignment, built with digital guide display and laser beam pointing

## **DX7 DATA SHEET**

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- Employ single-ended design through reflective mirror
- Four ranges wide monitoring from 8-100 meters via encoder
- Three users programing 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

### **2 Technical Specification**

- **Part Number** DX7130
- **Standard**
  - Listed LPCB Pending
  - 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: 56mA
    - Alarm: 33mA
- **Beam Sensor Sensitivity [via Encoder]**
  - Level 1: 2.6 dB High Sensitivity
  - Level 2: 3.8 dB Medium Sensitivity
  - Level 3: 5.8 dB Low Sensitivity
- **Beam Pathway Length [via Encoder]**
  - Span 1: 8 to 20 meters Limited 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**  $\pm 0.4^\circ$  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

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- **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
- **Environmental**
  - Operating Temperature -10°C to +50°C
  - Ingress Protection Rating IP30 [IP66 glue seal-For permanent fixing]
  - Humidity 0 to 95% Relative Humidity, Non condensing

### 3 Names and Locations

