

MULTI DETECTOR

Model No.: BT-MD702

Product Overview:

The BT-MD702 is a high-performance multi-sensor detector that combines photoelectric smoke detection and fixed-temperature heat detection into a single unit. This dual-sensing technology provides improved fire detection accuracy and reduces false alarms, making it suitable for a wide range of applications including commercial, industrial, and residential installations. The detector is compatible with all standard Conventional Fire Alarm Control Panels and features an easy-to-install modular design.

Special Features:

- As per IS -2189 Standard.
- Dual-sensor technology (Smoke + Heat)
- Enhanced fire detection accuracy
- Rapid response to smoldering, flaming fires & heat rise
- Built-in LED alarm indicator
- Automatic drift compensation
- Automatic drift compensation for smoke chamber
- Easy installation with twist-lock base
- Compatible with all conventional fire alarm panels
- High immunity to dust, insects, humidity & RF interference
- Modular, maintenance-friendly construction

Technical Specifications:

Operating Conditions:

- **Operating Temperature:** 0°C to 55°C
- **Storage Temperature:** -10°C to 60°C
- **Relative Humidity:** 0-95% RH (non-condensing)

Electrical Specifications:

- **Operating Voltage:** 9-33 VDC
- **Standby Current:** ≤ 60 µA
- **Alarm Current:** ≤ 80 mA (LED ON)
- **Smoke Sensitivity:** 2.1%/ft ± 0.5% obscuration
- **Alarm Indicator:** Red LED (latching)
- **Reset Method:** Power reset



Mechanical Specifications:

- **Dimensions:** Ø100 mm × 50 mm (including base)
- **Weight:** Approx. 0.150 Kg (without Packaging)
- **Material:** ABS fire-retardant housing
- **Color:** White
- **Mounting Base:** 2-wire / 4-wire compatible
- **IP Rating:** Ip30

Wiring Diagram:

