

SEMARS DIGITAL

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Smart Equipment Monitoring
and Resolution System

SENSORS DATA SHEET

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01

Smoke & Fire Detector Sensor

The Smoke Detector Sensor is a photoelectric-based device designed for early detection of smoke particles in indoor environments. It features high immunity against false alarms and is suitable for industrial, commercial, and telecom applications. Its stable sensing chamber and LED indicators ensure reliable performance and easy status monitoring.



Its features and applications are as follows:

1.1 Key Features:



Photoelectric Smoke Detection Technology

Industry Standard Sensor



Low Current Draw

Milli Amps Current Intake



Wide Operating Voltage Range (32–60v Dc)

Range of Voltages Supported



LED Status Indicators (Amber/Red)

Alarms and Buzzer Indication



High Immunity Against Unwanted Alarms

Blocks False Alarms

1.2 Applications:

- **Telecom shelters**
- **Server rooms**
- **Industrial control cabinets**

- **Commercial buildings**
- **Smart infrastructure monitoring**

This type of sensor is particularly suitable for industrial or commercial environments requiring precise monitoring and integration with existing systems.

1.3 Specifications

SL No.	Specification	Value
1	Operating Voltage	32–60V DC (<10mA)
2	Operating Temp & Humidity Range	-10°C to +50°C, 5–97% RH (non-condensing)
3	Dimensions	Height: 125mm, Diameter: 84mm
4	IP Rating	IP-20
5	Sampling Time	3 to 55 Seconds
6	Installation	Ceiling Mounted
7	Alarm Output	SPST N/O 1A @ DC30V
8	Start-Up Time	3 to 5 Seconds
9	Alarm Indication	Amber / Red LEDs
10	Alarm Auto Reset	5 Seconds After Smoke Clears
11	Detection Technology	Photoelectric Smoke Sensing

1.4 Note:

Operating and storage conditions :

- Designed for indoor use in controlled environments.
- LED indicators provide clear visual feedback on sensor status.
- Auto-reset ensures continuous monitoring without manual intervention.

Attention :

- Do not install in areas with high humidity or condensation.
- Avoid placing near heat sources or direct airflow.
- Not suitable for outdoor or explosive environments.
- Ensure proper ceiling mounting for optimal performance.
- Do not tamper with the sensing chamber.

Certifications :

- CE Certified
- RoHS Compliant
- ISO 9001 Manufacturing Standards



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