

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.

Certifications :

- CE Certified
- RoHS Compliant
- ISO 9001 Manufacturing Standards

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.



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