

# Smoke Detector

## SD-50



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## **[ Product Description]**

SD-50 is a sophisticated smoke detector equipped with an embedded microprocessor. It efficiently processes signals from its sensor, comparing them against pre-defined alarm thresholds. When these thresholds are surpassed, it promptly triggers a relay output, facilitating seamless integration with PLC/DDC systems for effective control and coordination.

The majority of conventional smoke detectors have typically been utilized solely for fire alarm purposes, often lacking the requisite level of detection accuracy and stability required for utility applications in industrial settings. Consequently, the SD-50 has been engineered to fulfill both sensitivity and stability requirements by harnessing advanced industrial-grade detector technology to regulate its sensitive ionization sensor.

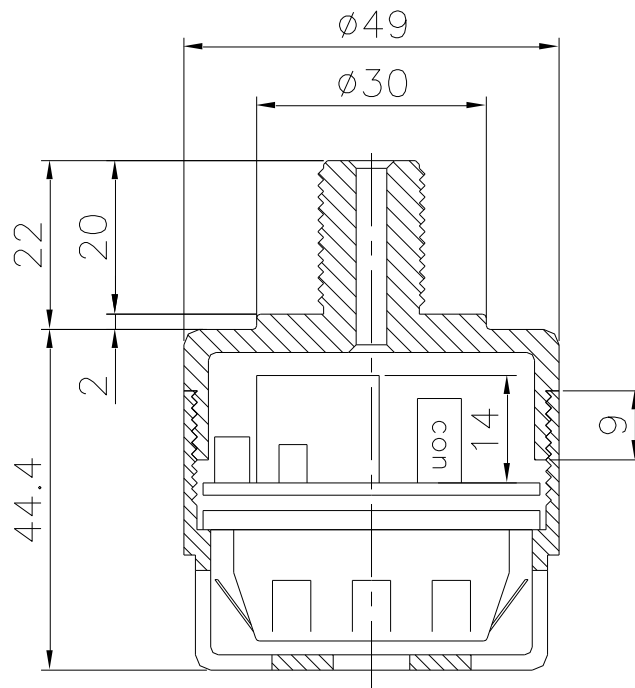
## **[Product Features]**

- ◆ **Low Concentrated Smoke Detection:** Designed to assist the safety function of precise industrial automation equipment, it is suitable for detecting trace of smoke.
  
- ◆ **Digital Processing:** Utilizing a microprocessor, our system incorporates a wide array of artificial intelligence functionalities. This allows for the customization of detection and alarm functions to be finely tuned, maximizing overall effectiveness in detection.
  
- ◆ **Ionization Sensor:** Our ionization sensor utilizes the current change resulting from the interaction between smoke and the ion band formed by radiation. This design provides outstanding sensitivity, enabling swift detection of even minute concentrations of smoke for enhanced safety protocols.

## [Product Specification]

<b>Model Name</b>	<b>SD-50</b>
<b>Detection Principle</b>	<b>Ionizations Smoke Chamber</b>
<b>Detection Method</b>	<b>Diffusion</b>
<b>Response Time</b>	<b>Within 3 sec</b>
<b>Output</b>	<b>A Contact (DC30V 1A), B Contact.</b>
<b>Input Power</b>	<b>DC 22V~26V</b>
<b>Current usage</b>	<b>25mA. Maximum</b>
<b>External Material</b>	<b>Acetal</b>
<b>Operating temperature/Humidity</b>	<b>-20°C ~ 65°C / 0 ~ 95% RH (Non-Condensing)</b>
<b>Process Method</b>	<b>Digital Process</b>

### ■ SENSOR UNIT



**[Wiring Diagram]**

+(RED)	POWER (+): 24VDC	
-(BLACK)	POWER (-): GND	
B(GREEN)	—⊙	NC (NORMAL CLOSE)
COM(WHITE)	—/	RELAY COM
A(YELLOW)	—⊙	NO (NORMAL OPEN)

