



# PHOTOELECTRIC SMOKE DETECTORS



#### **Features**

- Two and four wire models
- Photoelectric smoke sensing technology
- Uses smoke sensor in conjunction with a fixed temperature heat sensor to extend reliability
- Durable sensor head, no need for replacement
- Remote LED output on select 2-wire models
- N/C (normal close) or N/O (normal open) selectable relay output
- Easy installation and maintenance
- · Attractive sleek housing
- UL listed

### **Description**

The SD Series photoelectric smoke detectors are engineered to meet strict UL fire safety codes and effectively respond to a wide spectrum of fires. The SD Series smoke detectors are suitable for use in commercial, industrial, institutional and residential occupancies. The sleek low-profile design of the detectors emphasizes ease of installation and field maintenance.

The SD Series consists of four models:

#### SW-2WP-LED / SD-2WT-LED

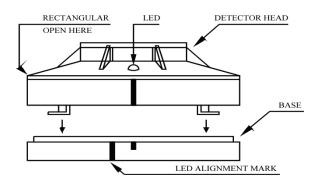
The SD-2WP-LED is a two-wire photoelectric smoke detector for use with electrically compatible fire alarm control units. The SD-2WT-LED is a two-wire smoke detector that uses photoelectric technology in conjunction with a fixed temperature heat sensor to further extend its sensing capabilities. SD-2WP-LED and SD-2WT-LED are available with a remote LED output.

#### SD-4WP / SD-4WT

The SD-4WP is a four-wire photoelectric smoke detector. The SD-4WT is a four-wire photoelectric smoke detector with a fixed temperature heat sensor.

All SD Series smoke detectors come equipped with a sleek low-profile design and durable sensor head. Utilizing advanced detection and discrimination algorithms, the SD Series smoke detectors provide quality and reliability.

### **Installation Diagram**





## **Electrical Specifications**

Model	2/4 wire	Heat Sensor	Voltage DC	Standby Current (Max.)	Alarm Current (Max.)	Surge Current (Max.)	Star-Up Time (Max.)	Permissible Current (Max.)	Frequency	Alarm contact
SD-4WT	4	135°F	12/24V	370µA	35mA		60 Seconds	80mA	3-5 Seconds	Form A
SD-4WP	4		12/24V	370µA	35mA		60 Seconds	80mA	3-5 Seconds	Form A
SD-2WT-LED	2	135°F	12~28V	150µA	70mA	160µA	60 Seconds	80mA	3-5 Seconds	_
SD-2WP-LED	2		12~28V	150µA	70mA	160µA	60 Seconds	80mA	3-5 Seconds	_

Smoke Sensitivity	2.66+/- 1.11% FT Obscuration (UL standard)			
Detection Range	50 foot rating for heat sensor			
Start-Up Current	70 μA Maximum			
Alarm Impedance	For 2-wire models: $100\Omega+3V$ max; $560\Omega+3V$ max (red LED open circuit)			
Reset Voltage	Less than 1 volt			
Reset Time	Less than 1 sec			
Alarm Indicator	Continuously emitting red light			
Temperature range	-10°C to 50°C			
Humidity	0 to 95% RH, non condensing			
Alarm Contact	For 4-wire: N/O or N/C Operation			
	Form A: 1.0A@30VDC/0.5A@125VAC			
Dimensions	10mm (dia) x 46mm (ht) with base			
Weight	130g/set with base			

## **Ordering Information**

Model	Description
SD-2WP-LED	2-wire photoelectric smoke detector and remote LED output. Includes 4-inch base
SD-2WT-LED	2-wire photoelectric smoke detector with heat sensor and remote LED output. Includes 4-inch base.
SD-4WP	4-wire photoelectric smoke detector c/w 4-inch base
SD-4WT	4-wire photoelectric smoke detector with heat sensor c/w 4-inch base



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