PHOTOELECTRIC SMOKE DETECTORS   SD SERIES

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 six models:

SD-2WP / SD-2WT / SW-2WP-LED / SD-2WT-LED
The SD-2WP is a two-wire photoelectric smoke detector for use with electrically compatible fire alarm control units. The SD-2WT is a two-wire smoke detector that uses photoelectric technology in conjunction with a fixed temperature heat sensor to further extend its sensing capabilities. Additional two wire models (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

UL
S6295

CATALOG NUMBER 5177
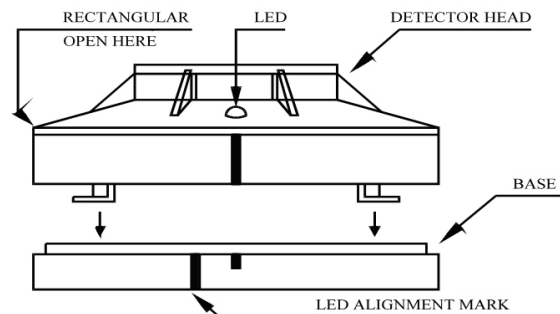
Electrical Specifications

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	2	135°F	12~28V	150µA	70mA	160µA	60 Seconds	80mA	3-5 Seconds	—
SD-2WP	2		12~28V	150µA	70mA	160µA	60 Seconds	80mA	3-5 Seconds	—
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: 100Ω+3V max; 560Ω+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	100mm (dia) x 46mm (ht) with base
Weight	130g/set with base

Ordering Information

Model	Description
SD-2WP	2-wire photoelectric smoke detector. Includes 4-inch base.
SD-2WT	2-wire photoelectric smoke detector with heat sensor. Includes 4-inch base.
SD-2WP-LED	2-wire photoelectric smoke detector with heat sensor 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

NOT TO BE USED FOR INSTALLATION PURPOSES.

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