

Conventional Photoelectric Smoke and Heat Alarm

All of the **Sentek's** SD119 series detectors meet the requirements of UL 268 and EN 54-7/5 for use in fire alarm signaling systems. They are intended for use in 2-wire/4-wire Class A or B supervised zone circuits. The SD119 series detectors are subject to panel compatibility limits and compliance with corresponding NFPA 72E standards, local codes, and ordinances.

The **SD119** series include 2-wire and 4-wire detectors, which provide fast and reliable response for photoelectric smoke and heat (135°F) detection. While the smoke and heat detection circuits operate independently, their outputs being 'OR' connected, The **Sentek's** SD119 series detectors provide the fire detection performance by acting as a smoke sensor and/or a 135°F heat detector at the same location.

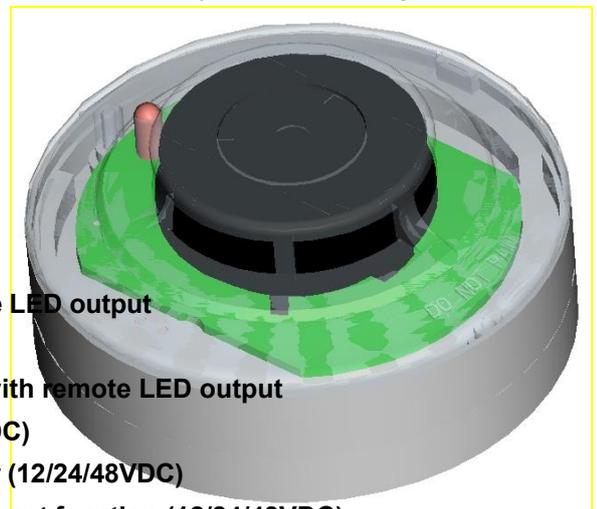
Product Features:

- 2 or 4 wire models
- Advanced detection and discrimination algorithms
- Easy installation and maintenance
- Sleek low-profile housing design
- Durable sensor head, no need for replacement
- SMD circuit board design-satisfactory quality and reliability guaranteed
- Integrated heat detector for SD119-2H and SD119-4H models
- N/C (normal/close)-N/O (normal/open)selectable relay output
- AR (Auto Reset) function for security systems (optional for 4 wire models) Sensor base option: standard and Shottky Diode
- Five-year limited warranty



The range includes:

SD119- 2	2 wire photoelectric smoke alarm
SD119- 2- LED	2 wire photoelectric smoke alarm with remote LED output
SD119- 2H	2 wire photoelectric smoke and heat alarm
SD119- 2H- LED	2 wire photoelectric smoke and heat alarm with remote LED output
SD119- 4	4 wire photoelectric smoke alarm (12/24/48VDC)
SD119- 4B	4 wire photoelectric smoke alarm with Buzzer (12/24/48VDC)
SD119- 4AR	4 wire photoelectric smoke alarm with auto-reset function (12/24/48VDC)
SD119- 4ARB	4 wire photoelectric smoke alarm with auto-reset function and Buzzer (12/24/48VDC)
SD119- 4H	4 wire photoelectric smoke and heat alarm (12/24/48VDC)
SD119- 4HB	4 wire photoelectric smoke and heat alarm with Buzzer (12/24/48VDC)
SD119- 4HAR	4 wire photoelectric smoke and heat alarm with auto-reset function (12/24/48VDC)



Product Specification:

Model	2/4 wire	Thermal	Voltage DC	Standby Current (Max.)	Alarm Current 12/24V	Surge Current (Max.)	Star-Up Time (Max.)	Permissible Current (Max.)	Frequency	Alarm contact	Base model
SD119-2	2		10.8~33V	80μA	22/55mA	160μA	30S	80mA	1~3 Seconds	—	P/N852001
SD119-2L	2		10.8~33V	80μA	22/55mA	160μA	30S	80mA	1~3 Seconds	—	P/N854001
SD119-2H	2	57°C	10.8~33V	80μA	22/55mA	160μA	30S	80mA	1~3 Seconds	—	P/N852001
SD119-2HL	2	57°C	10.8~33V	80μA	22/55mA	160μA	30S	80mA	1~3 Seconds	—	P/N854001
SD119-4-12V	4		10~13.8V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4-24V	4		20~27.6V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
S119-4H-12V	4	57°C	10~13.8V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
S119-4H-24V	4	57°C	20~27.6V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4AR-12V	4		10~13.8V	100μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4AR-24V	4		20~27.6V	100μA	45mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4HAR-12V	4	57°C	10~13.8V	100μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4HAR-24V	4	57°C	20~27.6V	100μA	45mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4B-12V	4		10~13.8V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4B-24V	4		20~27.6V	80μA	45mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4HB-12V	4	57°C	10~13.8V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4HB-24V	4	57°C	20~27.6V	80μA	45mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4HARB-12V	4	57°C	10~13.8V	80μA	30mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4HARB-24V	4	57°C	20~27.6V	80μA	45mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4-48V	4		10.8~60V	80μA	25mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4AR-48V	4		10.8~60V	80μA	25mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4H-48V	4	57°C	10.8~60V	80μA	25mA	160μA	30S	80mA	1~3 Seconds	Form A	P/N854001
SD119-4HAR-48V	4	57°C	10.8~60V	80μA	25mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001
SD119-4HARB48V	4	57°C	10.8~60V	80μA	25mA	160μA	30S	80mA	1~3 Seconds	Form A/Auto Reset	P/N854001

Product Character:

Smoke Sensitivity:	0.08~0.2db/m(EN standard) or 0.98~4.0%/FT Obscuration (UL standard)
Ceiling Spacing:	50 foot rating for heat sensor
Reset Voltage:	less than 1 volt
Reset Time:	less than 1 second
Alarm Indicator:	LED continuously emitting red light
Remote Output:	25 mA max., diode gate
Temperature Range:	-10°C to 55°C , UL268 temperature: 0~37.8°C
Permissible Current:	80mA maximum
Humidity:	0 to 95% RH, no condensation or icing
Alarm Contact:	(for 4-wire) NO or NC Operation, Form A: 1.0A@30VDC/0.5A@125VAC
Dimensions:	100mm (dia) x 46mm (ht) with base
Weight:	130g/set with base

