

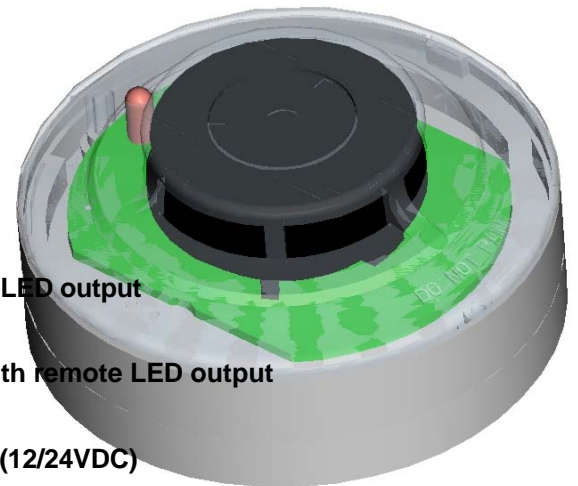
Conventional Photoelectric Smoke and Heat Alarm

All of the **Sentek's** SD-119 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 SD-119 series detectors are subject to panel compatibility limits and compliance with corresponding NFPA 72E standards, local codes, and ordinances.

The **SD-119** 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** SD-119 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 SD-119-2H and SD-119-4H 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:

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|-----------------|---|
| SD-119- 2 | 2 wire photoelectric smoke alarm |
| SD-119- 2- LED | 2 wire photoelectric smoke alarm with remote LED output |
| SD-119- 2H | 2 wire photoelectric smoke and heat alarm |
| SD-119- 2H- LED | 2 wire photoelectric smoke and heat alarm with remote LED output |
| SD-119- 4 | 4 wire photoelectric smoke alarm (12/24VDC) |
| SD-119- 4B | 4 wire photoelectric smoke alarm with Buzzer (12/24VDC) |
| SD-119- 4AR | 4 wire photoelectric smoke alarm with auto-reset function (12/24VDC) |
| SD-119- 4ARB | 4 wire photoelectric smoke alarm with auto-reset function and Buzzer (12/24VDC) |
| SD-119- 4H | 4 wire photoelectric smoke and heat alarm (12/24VDC) |
| SD-119- 4HB | 4 wire photoelectric smoke and heat alarm with Buzzer (12/24VDC) |
| SD-119- 4HAR | 4 wire photoelectric smoke and heat alarm with auto-reset function (12/24VDC) |

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 | 4 | | 10.8~33V | 80μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A | P/N854001 |
| S119-4H | 4 | 57°C | 10.8~33V | 80μA | 30/45mA | 160μA | 30 S | 80mA | 1~3 Seconds | Form A | P/N854001 |
| SD119-4-AR | 4 | | 10.8~33V | 100μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A/Auto Reset | P/N854001 |
| SD119-4H-AR | 4 | 57°C | 10.8~33V | 100μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A/Auto Reset | P/N854001 |
| SD119-4B | 4 | | 10.8~33V | 80μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A | P/N854001 |
| SD119-4B-AR | 4 | | 10.8~33V | 100μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A/Auto Reset | P/N854001 |
| SD119-4HB | 4 | 57°C | 10.8~33V | 80μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A | P/N854001 |
| SD119-4HB-AR | 4 | 57°C | 10.8~33V | 100μA | 30/45mA | 160μA | 30S | 80mA | 1~3 Seconds | Form A/Auto Reset | P/N854001 |

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|----------------------|---|
| Smoke Sensitivity: | 2.26+/-1.21%/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 50°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 |

