

# Smoke and Multi-detector

## SD119 Series



### 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:

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

| Model             | 2/4 wire | Heat Sensor Setting | Voltage DC (Min./Max.) | Standby Current (Max.) | Alarm Current (12/24V) | Surge Current (Max.) | Start-Up Time (Max.) | Permissible Current (Max.) | Cycle Time | Alarm contact     | Certified | Base Model No. |
|-------------------|----------|---------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------------------|------------|-------------------|-----------|----------------|
| SD119-2           | 2        |                     | 10.8~33V               | 80µA                   | 22/55mA                | 160µA                | 30 Sec.              | 80mA                       | 1-3 Sec.   | —                 | UL/EN     | P/N852001      |
| SD119-2L          | 2        |                     | 10.8~33V               | 80µA                   | 22/55mA                | 160µA                | 30 Sec.              | 80mA                       | 1-3 Sec.   | Remote LED        | UL/EN     | P/N852001      |
| SD119-2H          | 2        | 135±5°F             | 10.8~33V               | 80µA                   | 22/55mA                | 160µA                | 30 Sec.              | 80mA                       | 1-3 Sec.   | —                 | UL/EN     | P/N852001      |
| SD119-2HL         | 2        | 135±5°F             | 10.8~33V               | 80µA                   | 22/55mA                | 160µA                | 30 Sec.              | 80mA                       | 1-3 Sec.   | Remote LED        | UL/EN     | P/N852001      |
| SD119-4-12/24     | 4        |                     | 12/24V                 | 80µA                   | 30/45mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A            | UL/EN     | P/N852001      |
| SD119-4H-12/24    | 4        | 135±5°F             | 12/24V                 | 80µA                   | 30/45mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A            | UL/EN     | P/N852001      |
| SD119-4AR-12/24   | 4        |                     | 12/24V                 | 100µA                  | 30/50mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A Auto Reset | CE        | P/N852001      |
| SD119-4ARB-12/24  | 4        |                     | 12/24V                 | 100µA                  | 30/50mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A Auto Reset | CE        | P/N852001      |
| SD119-4B-12/24    | 4        |                     | 12/24V                 | 80µA                   | 30/45mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A            | CE        | P/N852001      |
| SD119-4HB-12/24   | 4        | 135±5°F             | 12/24V                 | 80µA                   | 30/45mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A            | CE        | P/N852001      |
| SD119-4HARB-12/24 | 4        | 135±5°F             | 12/24V                 | 100µA                  | 30/50mA                | -                    | 30 Sec.              | -                          | 1-3 Sec.   | Form A Auto Reset | CE        | P/N852001      |

### Specification:

|                   |  |
|-------------------|--|
| Smoke Sensitivity | 0.98--2.40%/FT Obscuration (UL) ; 0.08--0.14 dB/m (EN) |
| Ceiling Spacing   | 50 foot rating for heat sensor                         |
| Temperature Range | -10°C to 50°C  |
| Humidity          | 0 to 95% RH, no condensation or icing                  |
| Dimensions        | 100mm (dia.) x 46mm (ht) with base                     |
| Weight            | 130g/set with base                                     |