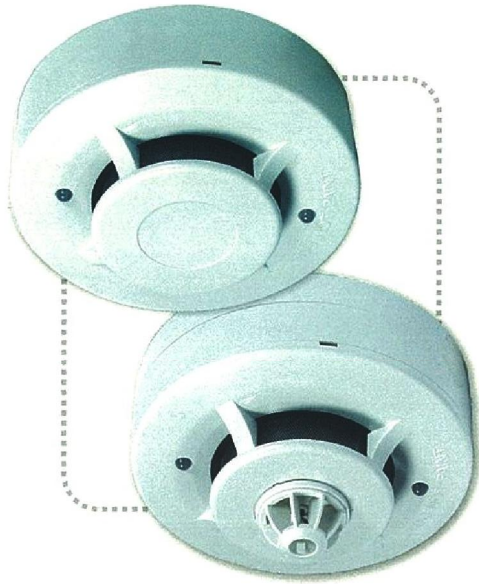


# EA318 series optical smoke detectors and multisensors

Advanced Multisensing Photoelectric Technology



EA 318 series optical smoke detectors are designed to respond to a wide spectrum of fires and ease installation. The EA318 series Multisensors use Advanced Photoelectric Technology in conjunction with a fixed temperature heat sensor to further extend its capabilities as a smoke detector. Every unit is individually tested and calibrated to ensure high reliability and prevent false alarms.

Approvals **Everday**  
EN-54-7:2000; **EN-54** **CE**

### The Range

|              |  |
|--------------|--|
| EA318-2      | 2 wire optical Smoke detector  |
| EA318-2-LED  | 2 wire optical Smoke detector with remote LED indicator output             |
| EA318-2H     | 2 wire optical Multisensor (smoke & heat)                                  |
| EA318-2H-LED | 2 wire optical Multisensor (smoke & heat) with remote LED indicator output |
| EA318-4      | 4 wire optical Smoke detector  |
| EA318-4H     | 4 wire optical Multisensor (smoke & heat)                                  |

### Features and Benefits

- Advanced photoelectric smoke sensing technology.
- Multisensor is used for a wide range of applications and is highly immune to false alarm.
- Durable sensor head; excellent smoke access.
- Dual LEDs for 360° visibility.
- N/C (normal close) or N/O (normal open) selectable relay output.
- Easy installation and maintenance.
- Modern design for any decor (white and beige colors).
- Five-year limited warranty.

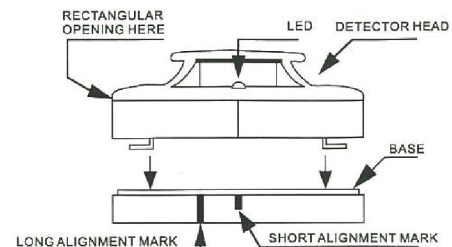
### Options:

- AR (Auto Reset) function for security systems: EA-318-AR line.
- Buzzer: EA-318-B line.
- Sensor base: standard and Schottky diode.
- Remote LED.
- EN54 Multiple Listing service available.

### Specification

| Model         | 2/4 wire | Thermal     | Voltage DC  | Standby Current (Max) | Alarm Current (Max) | Surge Current (Max) | Start-Up Time (Max) | Permissible Current (Max) | Emitting Duty | Alarm Contact | Base Model |
|---------------|----------|-------------|-------------|-----------------------|---------------------|---------------------|---------------------|---------------------------|---------------|---------------|------------|
| EA-318-2      | 2        | -           | 12-35 V     | 35 µA                 | 70 mA               | 40 µA               | 60 sec              | 80 mA                     | 3-5 sec       | -             | P/N852001  |
| EA-318-2-LED  | 2        | -           | 12-35 V     | 35 µA                 | 70 mA               | 40 µA               | 60 sec              | 80 mA                     | 3-5 sec       | -             | P/N854001  |
| EA-318-4-12   | 4        | -           | 10.2-13.8 V | 35 µA                 | 35 mA               | -                   | 60 sec              | 80 mA                     | 3-5 sec       | Form A/B      | P/N854001  |
| EA-318-4-24   | 4        | -           | 20.4-27.6 V | 35 µA                 | 35 mA               | -                   | 60 sec              | 80 mA                     | 3-5 sec       | Form A/B      | P/N854001  |
| EA-318-2H     | 2        | 135°F(57°C) | 12-35 V     | 35 µA                 | 70 mA               | 40 µA               | 60 sec              | 80 mA                     | 3-5 sec       | -             | P/N852001  |
| EA-318-2H-LED | 2        | 135°F(57°C) | 12-35 V     | 35 µA                 | 70 mA               | 40 µA               | 60 sec              | 80 mA                     | 3-5 sec       | -             | P/N854001  |
| EA-318-4H-12  | 4        | 135°F(57°C) | 10.2-13.8 V | 35 µA                 | 35 mA               | -                   | 60 sec              | 80 mA                     | 3-5 sec       | Form A/B      | P/N854001  |
| EA-318-4H-24  | 4        | 135°F(57°C) | 20.4-27.6 V | 35 µA                 | 35 mA               | -                   | 60 sec              | 80 mA                     | 3-5 sec       | Form A/B      | P/N854001  |

|                        |  |
|------------------------|--|
| Smoke/Heat Sensitivity | EN 54-5 / 7:2000 standard  |
| Detection Range        | 100 m <sup>2</sup> rating for smoke sensor; 50 m <sup>2</sup> rating for heat sensor |
| Start-Up Current       | 70 µA (max)  |
| Alarm Impedance        | For 2-wire models: 100 Ω + 3V max; 560 Ω + 3V max (red LED open circuit)             |
| Reset Voltage          | Less than 1 volt   |
| Reset Time             | Less than 1 second   |
| Alarm Indicator        | Continuously emitting red light  |
| Temperature Range      | -10°C to +50°C   |
| Remote Output          | 15 mA max., diode gate   |
| Humidity               | 0 to 95% RH, noncondensing   |
| Alarm Contact          | (for 4-wire) N/O or N/C Operation<br>1.0 A @ 30 Vdc / 0.5 A @ 125 Vdc                |
| Dimensions             | 10 mm (D) x 46 mm (H) with base  |
| Weight                 | 130 g/set with base  |



CONVENTIONAL DETECTION