


Conventional Detection

Advanced Multisensing Photoelectric Technology EA-318 Series optical smoke detectors and multisensors

EA-318 series optical smoke detectors are designed to respond to a wide spectrum of fires and ease installation. The EA-318 series multisensors use Advanced Photoelectric Technology in conjunction with the 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

EN-54 

The Range

EA-318-2	2-wire optical smoke detector
EA-318-2-LED	2-wire optical smoke detector with remote LED indicator output
EA-318-2H	2-wire optical multisensor (smoke+heat)
EA-318-2H-LED	2-wire optical multisensor (smoke+heat) with remote LED indicator output
EA-318-4	4-wire optical smoke detector
EA-318-4H	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 alarms
- Durable sensor head; excellent smoke access
- Dual LEDs for 360° visibility
- N/C (normal/close)-N/O (normal/open) selectable relay output
- Easy installation and maintenance
- Modern design for any décor (white and beige colors)
- Five-year limited warranty

Available Options

- AR (Auto Reset) function for security systems: EA-318-AR range
- 85dB Buzzer option: EA-318-B range
- Sensor Base: standard and Shottky Diode
- Remote LED
- EN54 and CE Multiple listing services

Specification

Model	2/ 4 Wire	Thermal	Volt. DC	Startup Current (Max)	Alarm Current (Max)	Surge Current (Max)	Startup Time (Max)	Permis. Current (Max)	Freq .	Alarm Contac t	Base Model
EA-318-2	2		12~35 V	35 μ A	70 mA	40 μ A	60 sec	80 mA	3~5 sec		P/N85200 1
EA-318-2-LED	2		12~35 V	35 μ A	70 mA	40 μ A	60 sec	80 mA	3~5 sec		P/N85400 1
EA-318-4-12	4		10.2 ~13.8V	35 μ A	35 mA		60 sec	80 mA	3~5 sec	From A/B	P/N85400 1
EA-318-4-24	4		20.4 ~27.6V	35 μ A	35 mA		60 sec	80 mA	3~5 sec	From A/B	P/N85400 1
EA-318-2H	2	135 F (57 C)	12~35 V	35 μ A	70 mA	40 μ A	60 sec	80 mA	3~5 sec		P/N85200 1
EA-318-2H-LED	2	135 F (57 C)	12~35 V	35 μ A	70 mA	40 μ A	60 sec	80 mA	3~5 sec		P/N85400 1
EA-318-4H-12	4	135 F (57 C)	10.2 ~13.8V	35 μ A	35 mA		60 sec	80 mA	3~5 sec	From A/B	P/N85400 1
EA-318-4H-24	4	135 F (57 C)	20.4 ~27.6V	35 μ A	35 mA		60 sec	80 mA	3~5 sec	From A/B	P/N85400 1

Smoke Sensitivity	EN 54-5/7:2000 standard
Detection Range	100 square meters rating for smoke sensor; 50 square meters rating for heat sensor
Start-Up Current	70 μ A Maximum
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 sec
Alarm Indicator	LED 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
	Form A: 1.0A@30VDC/0.5A@125VAC
Dimensions	10mm (dia) x 46mm (ht) with base
Weight	130g/set with base

