

Addressable Fire Alarms Detectors and Bases E-Series



Edwards E-Series Addressable Detectors are available in three versions: The E-HD is a selectable rate of rise or fixed-temperature heat detector with an alarm threshold of 135°F (57°C). The E-PHD houses an optical sensing chamber that detects smoke, as well as a fixed-temperature sensor that detects heat. The detector analyzes data from both sensors to determine when an alarm is initiated. The E-PD houses an optical sensing chamber that detects smoke.

E-Series detectors resist air movement caused by heating and air conditioning and feature comprehensive self-diagnostic capability. E-PD and E-PHD optical detectors continuously adjust their sensitivity reference value to compensate for changes in the environment such as the presence of dirt, temperature, and humidity. These detectors issue a dirty sensor warning when they reach their preset limit.

E-Series detectors have a twist-and-lock design to simplify installation and maintenance operations. A plastic breakout on the detector housing prevents removal from the base except with a special tool. A red LED flashes red when the detector is in alarm.

Features and Specifications

- Optical, heat, and multi-sensor models
- Up to 100dB @ 1m/90dB @ 10ft.
- Field replaceable optical chamber
- Compatible standard, relay, isolator, and audible bases
- Bases mount to standard North American two-gang or 4" square electrical boxes
- Twist-and-lock installation
- LED alarm indication
- Tamper-resistant feature
- Self-diagnostic capability with on-board storage of results
- Optical detectors feature automatic rate compensated sensitivity adjustment, as well as dirty sensor warnings
- Conformally coated components resist dust and humidity
- Automatic detector test
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Contact Ratings	Air Velocity	Smoke Sensitivity Range	UL Fixed Temp Alarm Rating	High dB - Temporal dB at 1m/10ft.
Combination Smoke and Heat Detector	E-PHD	15.2 - 19.95V DC	0.000045 A	—	0 to 5000 ft./min. (0 to 25.39 m/s)	0.67% - 3.66%	135°F (57°C)	—
Optical Smoke Detector	E-PD	15.2 - 19.95V DC	0.000045 A	—	0 to 5000 ft./min. (0 to 25.39 m/s)	0.67% - 3.66%	N/A	—
Fixed Temperature/ROR Heat Detector	E-HD	15.2 - 19.95V DC	0.000045 A	—	—	—	135°F (57°C)	—
Audible Detector Base	SB4U	24V DC	0.024 - 0.041 A	—	—	—	—	100/90
Standard Base	B4U	—	—	—	—	—	—	—
Relay Base	RB4U	—	—	2 A @ 30V DC, Form C	—	—	—	—
Isolator Base	IB4U¹	—	—	—	—	—	—	—

¹For use on Class A circuits only. Protects SLC from complete collapse due to a wire to wire short.



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Accessories

Description	Cat. No.
Surface Box for Audible Base	AB4G-SB
Remote alarm LED, use with standard base only	RLED
Replacement optical chambers (package of 10)	211-10PKG



Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions			
		Diameter (in.)	Width (in.)	Height (in.)	Depth (in.)
E-PHD	0.25	4	—	1.75	—
E-PD	0.25	4	—	1.75	—
E-HD	0.25	4	—	1.75	—
SB4U	0.11	6	—	2.57 ¹	—
B4U	0.11	6	—	2.08 ¹	—
RB4U	0.11	6	—	2.57 ¹	—
IB4U	0.11	6	—	2.57 ¹	—
AB4G-SB	1.00	6.8	—	1.8	—
RLED	0.20	—	2.35	4.5	0.75
211-10PKG	0.25	—	—	—	—

¹Including detector