

# E2 Series Photoelectric Smoke Detectors



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Photoelectric  
Smoke Detectors

## Description

The E2 series smoke detectors from System Sensor are well-known for its leading advancement in conventional detection. E2 represents easy installation and economic. E2 detectors have been highlighted for its easy installation and avant-garde features.

**Easy Installation:** The E2 series can be installed easily with its plug-in design which allows users to pre-wire bases. The large wire entry port and in-line terminals provide sufficient room for retracting the wire inside the base efficiently. The base enables different types of back box mounting methods including direct mounting or mount to ceiling using drywall anchors. The installation is completed by simply plugging the E2 heads into the base with a simple Stop-Drop'N Lock action.

**Avant-garde aspects:** The testing and maintenance of E2 detectors have been simplified by the use of a mounting base that may be pre-wired to the system, allowing the detector to be easily installed or removed. The intelligent of drift compensation and smoothing algorithm features with the E2 line to minimize nuisance alarms is out-perform than the other conventional line detectors. The 2-wire E2 detectors can link to a remote LED. The detector can indicates maintenance signal when connected to the 2W-MOD2 loop test/maintenance module or a panel equipped with the E2 protocol. On the other hand, the SENS-RDR is a wireless device which displays the sensitivity of E2 detectors in terms of per-foot obscuration.

## Features

- Plug-in detector line, mounting base included
- Large wire entry port
- In-line terminals with SEMS screws
- Mounts to octagonal and single-gang back boxes, 4-square back boxes, or direct to ceiling
- Stop-Drop 'N Lock attachment to base
- Removable detector cover and chamber
- Built-in remote maintenance signaling
- Drift compensation and smoothing algorithms
- Simplified sensitivity measurement
- Loop testing via EZ Walk feature
- Built-in test switch

## Agency Listings



# Specifications

Operating Voltage Nominal: 12/24 V non-polarized

Minimum: 8.5 V

Maximum: 35 V

Maximum Ripple Voltage: 30% peak to peak of applied voltage

Standby Current: 2400E: 50  $\mu$ A maximum average; 2412/24E: 50  $\mu$ A maximum average

Maximum Alarm Current: 2400E: 130 mA limited by control panel; 2412/24E: 20 mA @ 12 V, 23 mA @ 24 V

Alarm Contact Ratings (2412/24E only): 0.5 A @ 30 V AC/DC

Dimensions (including base): 5.3 inches (127 mm) diameter; 2.0 inches (51 mm) height

Weight: 6.3 oz (178 g)

Operating Temperature Range: 32°F to 120°F (0°C to 49°C);

Operating Humidity Range: 0 to 95% RH non-condensing

Sensitivity: 2.5%Obs/ft nominal

Input Terminals: 14 to 22 AWG

Mounting: 3½-inch octagonal back box

4-inch octagonal back box

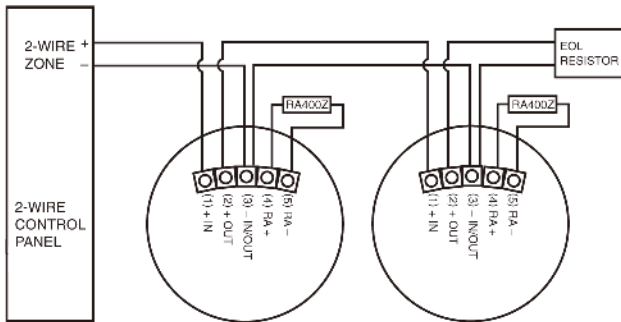
Single-gang back box

4-inch square back box with a plaster ring

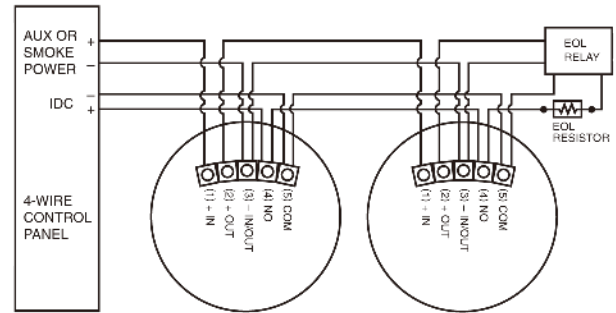
Direct mount to ceiling

## Wiring Modes Of System

### 2400E: 2-Wire Photoelectric Detector



### 2412/24E: 4-Wire Photoelectric Detector



## Ordering Information

Part No.	Description	Wiring	UL	FM
2400E	2-Wire Photoelectric Detector	2-Wire	Yes	Yes
2412/24E	4-Wire Photoelectric Detector	4-Wire	Yes	Yes
<b>Accessories</b>				
2W-MOD2	loop test/maintenance module	NA	Yes	Yes
SENS-RDR	sensitivity reader	NA	Yes	No



System Sensor Headquarters  
3825 Ohio Avenue  
St. Charles, IL 60174  
Ph: 630-377-6580  
Fx: 630-377-6495  
Free Phone: 800-736-7672  
Web: www.systemsensor.com

System Sensor China  
28 Tuan Jie South Road,  
Hi-Tech Development Zone  
Xi'an, 710075, China  
Ph: +86 29 88320119  
Fx: +86 29 88325110  
Web: www.systemsensor.com.cn

System Sensor Canada  
Ph: 905-812-0767  
Fx: 905-812-0771  
  
System Sensor Europe  
Ph: 44 (0) 1527 406700  
Fx: 44 (0) 1527 406699

System Sensor Italy  
Ph: 39 040 949 0111  
Fx: 39 040 382 137  
  
System Sensor Mexico  
Ph: 54 11 4324-1909  
Fx: 54 11 4324-5999

System Sensor Far East Ltd  
Ph: 852 21919003  
Fx: 852 27366580  
  
System Sensor Singapore  
Ph: 65 6273 2230

System Sensor India  
Ph: 91 124 2371770-270  
Fx: 91 124 2373118  
  
System Sensor Australia  
Ph: 61-3-5428 1142  
Fx: 61-3-5428 1172