

Photoelectric Smoke Alarm

EiA650iW

Product Description

The EiA650W range of Optical Smoke Alarms apply high-reliability photo-electric sensing technology, providing quick warning to all standard domestic fire types, including smoldering fires other devices might miss.

A unique external 8-pin header design enables simple, plug-in interface with a wide range (frequency and/or protocol) of custom OEM radio modules. No opening of the case required or need to solder potentially trouble-prone ribbon cables.

EiA650W devices are specifically designed for simple & intuitive, timesaving installation, commissioning and maintenance. All necessary mounting hardware is included. The large, ergonomic, Test/Silence button enables full testing and the ability to temporarily silence false/nuisance alarms. The patented, high-performance optical chamber with integral micro-mesh™ fixed insect screen reduces the possibility of false alarms.

The Automatic dust compensation feature further reduces false alarms by compensating for dust build up in the chamber, while maintaining its detection sensitivity.

- ✓ UL217 (UL268 ready)
- ✓ Automatic dust compensation
- ✓ AudioLINK Diagnostics
- ✓ Unique plug-in Radio Module design
- ✓ Large, “EZ-Press™” Test/Hush button
- ✓ Supervised sensor status
- ✓ Automatic smoke chamber status
- ✓ Built-in sounder – 85dB(A) at 3 meters
- ✓ LED Alarm indication
- ✓ Easy to install twist-on base design
- ✓ Innovative & robust optical chamber design
- ✓ 5 year Warranty

Operation

- The smoke detector will activate the built in sounder upon sensing smoke particles. It will automatically reset and silence the alarm when the smoke particles are no longer present in the chamber.
- The alarm is programmed to preform a self-check every 40 seconds to ensure the sensor is working, the chamber is ok and the battery is not in a low battery condition.
- A single replaceable CR123A Lithium battery powers the Alarm, an additional battery can be added to extend battery life or power an RF Module.
- The built in sounder will provide a minimum sound output of 85dB at 3m when a fire is detected.
- Pressing and holding the Test/Silence button will perform a complete test of the Alarm as well and sound the horn.
- If an EiA650W device has been activated due to a false/nuisance alarm, pressing the Test/Silence button silences the alarm for 10 minutes.

EiA650iW



Ei Electronics new AudioLINK feature is a means of extracting event data from the alarm to a specially design Smart Phone App. The phone application is specifically design to interpret the sound and convert it into meaningful event driven data.

Technical Specification

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|-----------------------------|--|
| Sensor: | Optical, uses light scatter from smoke particles |
| Self Test: | Automatic checking of alarm every 40 seconds. |
| Radio Intergration | 8 Pin header |
| Button Test: | Simulates the effect of smoke to check chamber, electronics and horn. |
| Silence: | Silences nuisance alarm. Automatically resets after approximately 10 minutes. |
| Supply Voltage: | 1x CR123A battery, Provision is made for a second Optional CR123A battery for extended Life. |
| LED indications: | Power-up, sensing fire, button test & low battery. |
| Audible indications: | Low battery & smoke chamber fault beeps |
| Alarm: | Piezoelectric-horn (built-in) |
| Alarm Sound Output: | 85dB (minimum) at 3m |
| Temperature: | 0 to 40°C / 32 to 104°F (Operating), 0 to 35°C / 32 to 95°F (Storage) |
| Humidity Range: | 15% to 95% Relative Humidity – non condensing |
| Dimensions: | 115mm / 4.53" (diameter) x 45mm / 1.77" (height) |
| Weight: | 200 grams / 7.055 ounces without batteries |
| Approvals: | UL-217/(UL-268 Ready) Manufactured to ISO 9001:2000 quality standards. |
| Warranty: | 5 year (limited) warranty |

*Specifications are subject to change

| Ordering information | Product | Short Description |
|----------------------|----------------|---|
| | EiA650iW-1X US | Smoke Alarm , Single plain box pack of 10 |
| | EiA650iW-0A US | Smoke Alarm, Bulk Pack of 20 |