Ei Electronics®
fire + gas detection

Ei166e - Optical Smoke Alarm

Mains Powered 230V~
Rechargeable Battery Back-up



Key Features

- High performance optical sensor
- Hardwire interconnect
- Wireless interconnect when fitted with Ei100MRF RadioLINK+ module
- Easi-fit base
- Easy to use large Test/Hush button
- Memory feature
- 5 year guarantee

Product Description

The Ei166e Optical Smoke Alarm is fitted with a proprietary photoelectric sensor to quickly sense low energy smoke particles from smoldering fires. Powered by **230V AC** with a rechargeable 10 year built in **battery back up** supply to ensure continuous operation (up to 4 months) in the event of a power failure.

The Alarm is supplied with the "**Easi-fit"** base to facilitate quick and simple installation, combined with easy detector head removal and replacement. The Easi-fit base automatically connects both mains power and battery as the detector head slides on.

The Ei166e may operate as a standalone Alarm or may be interconnected via hardwire or wirelessly with the optional RadioLINK+ module Ei100MRF (sold separately) to communicate with compatible Ei Alarms and accessories. Up to 12 devices can be interconnected.

The Alarm self-checks its sensor, battery voltage and internal circuitry every 40 seconds. A fault condition will be indicated by a short beep every 40 seconds.

The Alarm is fitted with a large Test & Hush button to facilitate frequent testing of your Alarm. This will check the sounder, battery voltage and internal circuitry.

The memory feature allows an Alarm that has previously activated to be easily identified (the red LED flashes twice every 40 seconds for 24 hours after the event).

Technical Specification

Sensor Type:	Photoelectric
Product Life:	10 Years
Supply Voltage:	230V AC, 50Hz
Battery back-up:	Rechargeable lithium battery backup
Sound Level:	85 dB(A) at 3m
Button Test:	Simulates the effect of smoke and checks chamber, electronics and horn
Silence function:	Silences alarm for 10 minutes
Visual indicators:	Green LED : Power Red LED: Self-check, alarm, hush & memory (if red LED is flashing while unit is beeping, the battery is faulty; if red LED is NOT flashing & unit is beeping, sensor is faulty)
Memory feature:	2 red flashes every 40s to indicate a previous alarm activation
Insect Screen:	Fine Mesh
Fixing:	Screw fixing and Easi-fit base supplied
Normal Operating and Storage Temperature:	Range -10°C to 40°C [1]
Normal Operating and Storage Humidity Range	15 % to 95 % Relative Humidity (non-condensing)
Plastic material:	UL94VO flame retardant
Dimensions:	Product - 150mm x 55mm Package - 180mm x 155mm x 62mm
Weight:	345g (Pack +55g)
Warranty:	5 year (limited) warranty
Approvals:	CE KM 522831 BS EN14604:2005

Manufactured to ISO 9001 quality standards
Specifications are subject to change

1. Temperature and Humidity conditions are for normal operation and storage. Units will function outside these ranges as required by the specific product Standards. Extended exposure to conditions outside these ranges can reduce product life. For advice on prolonged operation outside these ranges consult the manufacturer.

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