

Ei186 - Low Voltage Optical Smoke Alarm

with volt free relay contacts Alkaline Battery Back-up

Key Features

- High performance optical sensor
- Powered by 11-30V DC from panel or external source
- One volt free contact output (NO/NC)
- Continuous or pulse mode
- Hardwire Interconnect
- Low voltage "easi-fit" type base
- ▼ Test/Silence button
- 5 year guarantee

Product Description

The Ei186 Optical Smoke Alarm is designed to connect to a panel for its low voltage power supply but also as a trigger via a built in relay. The 9V replaceable battery back-up will ensure continuous operation (up to a year) in the event of power supply failure under normal operation.

It operates on the light scatter principle to detect smoke particles entering the optical chamber. This optical Alarm is sensitive to all domestic fire types but is especially sensitive to visible smouldering fires. When smoke is detected, the horn will sound and the relay will switch.

The relay can be set up as Pulse or Continuous mode of operation. When supplied it is set to Continuous (ie relay switches while detector is in alarm). If Pulse mode is selected, the relay switches for 5 seconds only when detector goes into alarm.

The Ei186 may operate as a standalone or may be hardwire interconnected to other low voltage Alarms from the same range. In an interconnected system, an Alarm sensing fire will cause all others to alarm and switch contact.

The Alarm is supplied with a low voltage base with an Easi-fit connection to facilitate simple detector head removal and replacement. The base automatically connects both the low voltage power supply and battery as the detector head slides on.

The Alarm self-checks its sensor, battery 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 Test / Silence button to facilitate frequent testing of your Alarm. The Silence function allows the Alarm to be silenced in the case of a false alarm, e.g. cooking fumes.



Technical Specification

Sensor Type: Photoelectric Product life: 10 years Supply Voltage: 10.5-30V DC

Battery back-up: 9V alkaline battery (replaceable) **Relay contacts:** 30V, 1A resistive (NO/NC)

Continous or Pulse mode

Interconnection: via Hardwire **Sound Level:** 85 dB(A) at 3m

Button Test: Simulates the effect of smoke and checks

sensor, electronics, horn and relay

Indicators: Green LED - Power

Red LED - Self Test, alarm, in hush mode (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)

Insect screen: Fine mesh

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

Fixing: Screw fixing and mounting plate supplied

Dimensions: Product - 145mm x 62mm

Packaged - 155mm x 182mm x 68mm

Weight: 374g (Pack +58g)
Warranty: 5 year (limited) warranty

Approvals:

CE



KM522831 EN14604:2005 + AC:2008

Manufactured to ISO 9001 quality standards Specifications are subject to change

 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.

> Shannon Free Zone, Shannon, Co. Clare, Ireland Tel: +353 61 471277 Fax: +353 61 471053