Smoke Alarm System

MAINS POWERED 230V~

For the deaf and hard of hearing

Model Ei 176 Optical

- **Complete smoke alarm system**
- **Includes high intensity strobe, optical smoke alarm and vibration pad**
- **Rechargeable battery back up**
- **Test button**
- **Continuous monitoring of wiring**
- **Interconnectable to other Ei alarms**
- **Auxiliary sockets**
- **Low power cell warning**
- **Complies with BS415:1990 electrical safety**
- **5 year guarantee**

Product Description

The Ei176 is a complete smoke alarm system designed for the deaf and hard of hearing. The system includes the Ei173 control panel, Ei174 vibrating pad and Ei105CD optical smoke alarm.

The Ei173 control panel includes a high intensity Xenon strobe, a sealed lead-acid rechargeable battery for standby use in the event of mains failure and all the required circuitry to connect to the Ei105CD smoke alarm and Ei174 vibrating pad

The Ei173 control panel also incorporates a Test button and circuitry to continuously monitor the system wiring

The Ei174 vibrating pad is designed to be placed under the mattress or pillow to waken people who fail to respond to the strobe alarm

Up to 11 other smoke/heat alarms (Ei100C/105C/103C) can be interconnected to the master smoke alarm Ei100CD. The smoke alarms are all powered from the control panel and in the event of mains failure the rechargeable battery in the panel will power the entire system, including the smoke alarms, for one week.

Operation

- The green indicator will illuminate to show mains power is present
- The red indicator will flash once every second to show that the mains supply is off and the system is running on battery backup power
- The red indicator will go off as the battery becomes depleted (with mains off)
- The slide switch on the control panel disconnects mains and battery power from the control panel and extinguishes both LED indicators
- The “Test” button will check the strobe, vibration pad and panel
- When the Ei105CD optical smoke alarm is activated, the Ei173 control panel will flash the strobe at 1Hz and activate the vibrating pad
- The interconnect wiring from the smoke alarm to the control panel is monitored so that if the smoke alarm is not connected or if it is open/short circuit, then the strobe will flash and the vibrating pad will turn on
- An auxiliary socket allows the connection of an extra strobe or vibrating pad

Ei Electronics®

Shannon Free Zone, Shannon, Co. Clare, Ireland.
Ph.+353 61 471277 Fx.+353 61 471053
Email. eielectronics@eiltd.ie
Web: www.eielectronics.com

Model Ei176 Optical

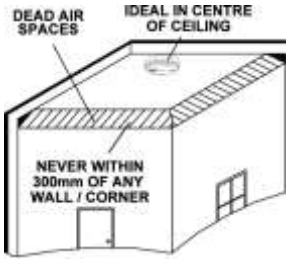
Technical Specification

Sensor	Optical, uses light scatter from smoke
Sensitivity:	Complies with BS 5446 Part 1: 2000
Source:	Contains no radioactive material
Airspeed:	Essentially immune to the effect of airspeed.
Ambient Light:	Chamber housing design and compensation overcomes problems with stray light
Button Test:	Tests strobe, vibration pad and panel
Fault Monitor:	Open/short circuit
Supply Voltage:	230V AC standby 8mA, alarm 40mA
Battery back up:	Sealed Rechargeable lead acid battery
Auxiliary socket:	Provides 12V/200mA in alarm

Power-On Indicator:	Continuous green LED
Alarm:	Xenon tube strobe (1Hz)
Temperature Range:	0 to 40°C
Humidity Range:	0% to 90% Relative Humidity
Interconnect:	Up to 12 interconnected Ei100C/105C/103C smoke/heat alarms
Fixing:	Screw fixings supplied
Plastic material:	UL94VO flame retardant
Warranty:	5 year (limited) warranty
Approvals:	BS 415:1990 electrical safety

Specifications are subject to change

Placement Information



Alarms should be placed in accordance with the general guidelines shown in the diagram above. These recommendations are based on the problem of areas of “dead air” close to corners of rooms and apexes of ceilings, which could result in the prevention of smoke reaching the smoke detector

Important Precaution:
Do not install the actual smoke/heat alarm itself in new or renovated buildings until all work is completed (including floor coverings) and the building has been fully cleaned. The wiring can be installed when appropriate. (Excessive dust and debris from building work can contaminate the smoke chamber and cause problems, and it will also invalidate the guarantee). If it must be installed, cover it completely, particularly around the edges, with a dust cover (eg. a plastic bag), until all cleaning is finished.. Connect wires to the unit as in wiring diagram. All wiring must comply with local codes.

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