

# Smoke Alarm

**9V BATTERY POWERED**

## Model Ei 105B Optical

- High sensitivity – responds to all standard fires
- Battery powered – 9V alkaline (supplied)
- Missing battery indicator
- Low battery warning
- Built in sounder
- Test button
- Kitemarked to BS5446-1:2000
- 5 year guarantee



### Product Description

The Ei105B is an Optical Smoke Alarm that runs on a 9V alkaline battery (supplied with the alarm).

Optical smoke alarms use the light scatter principle to Detect smoke particles entering the optical chamber Within the alarm.

Optical sensing technology give a rapid response to visible smouldering fires.

The Ei105B is easily installed and comes supplied with all necessary screw fixings.

The Ei105B is fitted with a warning flag that pops up When the battery is removed. This prevents the cover from closing when there is no battery fitted into the unit. When the battery is being installed or changed, this flag must be held down while gently pushing the battery into the battery holder.

When the battery is first connected, the alarm may sound for 2-3 seconds – **this is normal and means that the battery is connected correctly**

### Operation

- The smoke detector will activate the built in sounder upon sensing smoke particles
- The smoke detector will automatically reset itself and silence the sounder when smoke particles are no longer present in the sensing chamber
- The built in sounder will provide a minimum sound output of 85dB at 3m
- Interconnect up to 12 other alarms (Optical alarms Ei105B or Ionisation alarms Ei100C)- when one senses smoke, all alarm. Helps ensure warning will be heard throughout the house.
- The “Test” button will perform a self test and sound the horn (it may take up to 10 seconds)
- The smoke detector will emit a beep every 40 seconds to indicate that the battery back up is depleted and needs replacing



Shannon Free Zone, Shannon, Co. Clare, Ireland.

Ph.+353 61 471277 Fx.+353 61 471053

Email. [eielectronics@eiltd.ie](mailto:eielectronics@eiltd.ie)

[www.eielectronics.com](http://www.eielectronics.com)

## Model Ei105B Optical

### Technical Specification

<b>Sensor:</b>	Optical, uses light scatter from smoke particles
<b>Sensitivity:</b>	Complies with BS 5446 Part 1: 2000
<b>Airspeed:</b>	Essentially immune to the effect of airspeed.
<b>Button Test:</b>	Simulates the effect of smoke and checks chamber, electronics and horn.
<b>Supply Voltage:</b>	9V battery

<b>Alarm:</b>	Piezoelectric-horn in unit
<b>Alarm Sound Output:</b>	85dB (minimum) at 3m
<b>Temperature Range:</b>	0 to 40°C
<b>Humidity Range:</b>	0% to 90% Relative Humidity
<b>Fixing:</b>	Screw fixings supplied
<b>Plastic material:</b>	UL94HB flame retardant
<b>Dimensions:</b>	140mm x 120mm x 45mm
<b>Weight:</b>	204 grams
<b>Warranty:</b>	5 year (limited) warranty
<b>Approvals:</b>	Kitemarked to BS5446-1:2000, CE Approved

Specifications are subject to change

### Installation & Placement



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

Please consult the Instruction Leaflet supplied with the Ei105B for detailed instructions as to how to correctly install and position 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. (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..