

# Smoke Alarm

## Model Ei 105R Optical

- High sensitivity – responds to all standard fires
- Senses smoke using the light scatter principle, giving a quick response to visible smouldering fires
- Supply voltage 10.2 to 14 volts
- Relay Contacts (Normally open and closed)
- Interconnect up to 12 alarms
- Test button
- Kitemarked to BS5446-1:2000
- 5 year guarantee



## Product Description

The Ei105R is an Optical Smoke Alarm that is designed to operate with suitable 12 volt control panels and to provide a loud local alarm.

Optical smoke alarms use the light scatter principle to detect smoke particles entering the optical chamber within the alarm.

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

The Ei105R is easily installed and comes supplied with all necessary screw fixings.

Relay contacts (normally open and closed supplied) are available for triggering the panel itself and its associated ancillary products, such as extra loud sirens, magnetic door holders, etc.

The alarms can be interconnected so that when one alarm senses fire, all the units located throughout the premises sound.

## 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
- In "Test" button will perform a self test and sound the horn (it may take up to 10 seconds)

## Model Ei105R Optical

### Technical Specification

<b>Sensor</b>	Optical, uses light scatter from smoke particles	<b>Alarm:</b>	Piezoelectric horn in unit
<b>Sensitivity:</b>	Complies with BS 5446 1: 2000	<b>Alarm Sound Output:</b>	85dB (minimum) at 3m
<b>Source:</b>	Contains no radioactive material	<b>Temperature Range:</b>	0 to 40°C
<b>Airspeed:</b>	Essentially immune to the effect of airspeed.	<b>Humidity Range:</b>	0% to 90% Relative Humidity
<b>Button Test:</b>	Simulates the effect of smoke and checks chamber, electronics and horn.	<b>Fixing:</b>	Screw fixings supplied
<b>Ambient Light:</b>	Chamber housing design overcomes problems with stray light.	<b>Plastic material:</b>	UL94HB flame retardant
<b>Supply Voltage:</b>	12V control panel	<b>Dimensions:</b>	140x120x45 mm
		<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 Ei105R 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..