

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)
- Interconnect up to 12 other alarms (9V ionisation, optical or heat) when one senses smoke, all alarm. Helps ensure warning will be heard throughout the house



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Technical Specification

Sensor	Optical, uses light scatter from smoke particles	Alarm:	Piezoelectric horn in unit
Sensitivity:	Complies with BS 5446 1: 2000	Alarm Sound Output:	85dB (minimum) at 3m
Source:	Contains no radioactive material	Temperature Range:	0 to 40°C
Airspeed:	Essentially immune to the effect of airspeed.	Humidity Range:	0% to 90% Relative Humidity
Button Test:	Simulates the effect of smoke and checks chamber, electronics and horn.	Fixing:	Screw fixings supplied
Ambient Light:	Chamber housing design overcomes problems with stray light.	Plastic material:	UL94HB flame retardant
Supply Voltage:	12V control panel	Dimensions:	145 x 120 x 45 mm
		Weight:	181 grams
		Warranty:	5 year (limited) warranty
		Approvals:	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..



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