

Ei105R - Low Voltage Optical Smoke Alarm

with volt free relay contacts

Key Features

- ▶ Optical sensor
- ▶ Powered by 10.2-14V DC from panel or external source
- ▶ One volt free contact output (NO/NC)
- ▶ Hardwire Interconnect
- ▶ Test button
- ▶ 5 year guarantee

Product Description

The Ei105R 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.

It is fitted with a proprietary photoelectric sensor to quickly sense low energy smoke particles. When smoke is detected, the horn will sound and the relay will switch.

The Ei105R may operate as a standalone or may be hardwire interconnected to other Ei Electronics low voltage Alarms from the same range. In an interconnected system, an Alarm sensing fire will cause all others to alarm and switch contact (depending on installation configuration). Up to 12 Alarms from the same range can be interconnected.

The Test button allows the user to check the operation of the Alarm. This will check the sensor, sounder, internal circuitry and relay. When the Test button is pressed, the horn will sound within 10 seconds and the relay contacts will change over about 4 seconds after the horn sounds. All interconnected Alarms should sound within 10 seconds. When the button is released, the horn will stop sounding and the relay contacts will change back 4 seconds later.

The Ei105R self-checks its chamber sensor every 40 seconds. Any fault condition found will be indicated by sound beeps.



Technical Specification

Sensor Type:	Optical
Product life:	10 years
Supply Voltage:	10.2-14V DC
Relay contacts:	24V, 1A resistive (NO/NC)
Interconnection:	via Hardwire
Sound Level:	85 dB(A) at 3m
Button Test:	Checks sensor, electronics, horn and relay
Visual indicators:	Red LED - Power and alarm
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:	UL94 HB
Fixing:	Screw fixing and mounting plate supplied
Dimensions:	Product - 130mm x 115mm x 45mm Packaged - 155mm x 135mm x 55mm
Weight:	180g (Pack +50g)
Warranty:	5 year (limited) warranty
Approvals:	



KM522831
EN14604:2005 + AC:2008

Manufactured to ISO 9001 quality standards
Specifications are subject to change

1. 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.