



Model: Ei129  
230V~ with  
Battery Backup

## Alarm Trigger Module

Connects to Sprinkler & EN54 Fire Systems (24V)

### Instruction Manual

Contains vital information on the product's operation and installation. Read and retain carefully. If you are just installing this product **the manual MUST be given to the householder.**

#### 1. Introduction

The Ei129 is designed to sound interconnected Ei Electronics Mains Powered Alarms to give a fire warning. When the external normally open contacts connected to it, close.

Its main applications are:

1. To trigger the Smoke/Heat/Fire Alarms to sound when a Sprinkler System is activated.
2. To trigger all the Smoke/Heat/Fire Alarms in an apartment to sound when the EN54 Fire System in the common areas of the HMO\* sense fire. This greatly increases the alarm sound level throughout the apartment (this helps meet the recommendations of the BS5839-6: 2004 Clause 13.2e) which requires 85dB(A) at each bedroom doorway. (It can also help meet the recommendations of Clause 13.2f) of 75dB(A) at each bed head where the fire risk assessment warrants it).

\* HMO - House in Multiple Occupancy

#### 2. Installation Instruction

##### 2.1 Installation of Ei129 under Ei Electronics Easi-Fit Alarms.

**WARNING:** Mains powered Alarm Trigger Modules should be installed by a qualified electrician in accordance with the regulations for Electrical Installations published by the Institution of Electrical Engineers (UK) (i.e. BS7671). Failure to install the unit correctly may expose the user to shock or fire hazards. This unit is not waterproof and must not be exposed to dripping or splashing.

**WARNING:** First disconnect the mains from the circuit to be used.

**2.1.1** Choose a mounting position following the siting instructions in the Smoke/Heat/Fire Alarm leaflet. Bring the wiring from the external N/O contacts to this position. (With an EN54 System an Input/Output Module is required and with a Sprinkler System Changeover contacts should be specified when it is being installed).

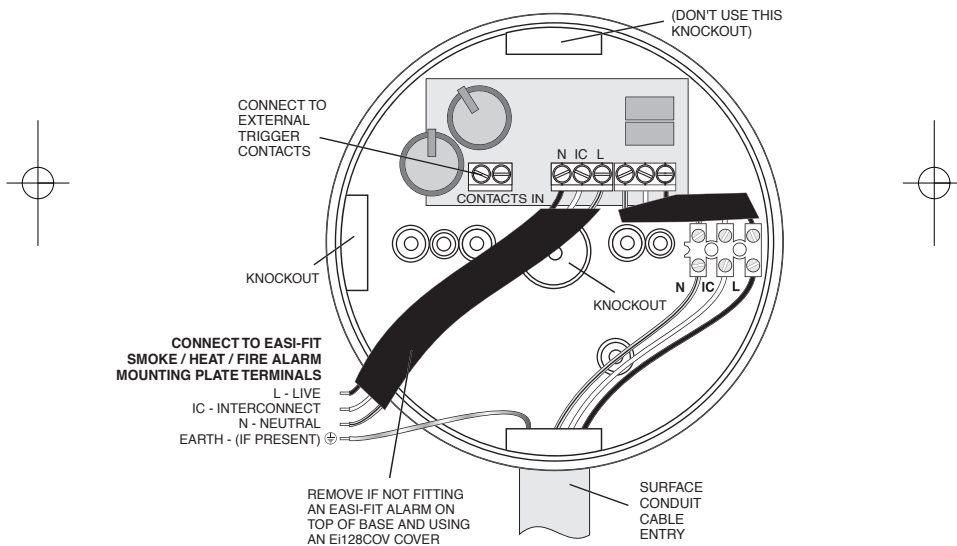
**Caution:**

The N/O contacts in the external device connected to the Ei129, must be electrically isolated and rated for 230V~.

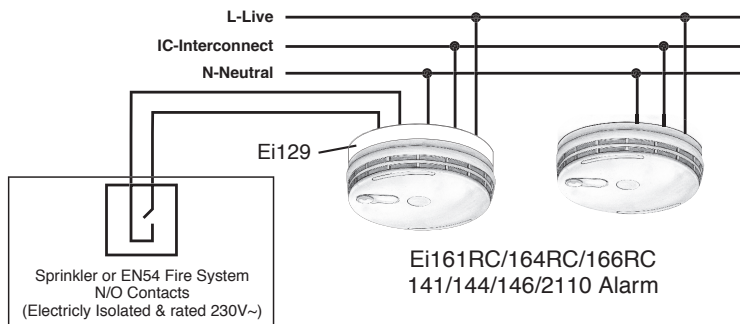
**2.1.2** Where the incoming wiring is on the surface of the ceiling, the appropriately sized ducting/conduit must be chosen to mate with the unit. Use a sharp knife to remove material from the selected knockout, making sure there is no gap when mated with ducting / conduit. There are three knockouts – two on the sidewall and one on the rear. (Do not use the knockout next to the circuit board as the wiring may damage the components).

**2.1.3** Screw the Ei129 Module to the ceiling after first removing the required knockout and bring the house wires through it (see Figure 1). If the contact knockout is being used, seal around the wires with silicone or similar to prevent air draughts affecting the smoke or heat entering the alarm.

**2.1.4** Connect the wires from the alarms (L – Live, N – Neutral, and IC – Interconnect) to the terminal block on the Ei129 Module as shown in Figure 1. Make the wiring connections as shown in Figure 2.



**Figure 1- Ei129 Model**



**Figure 2**

**2.1.5** Connect the two wires from the external N/O contacts to the “Contacts In” terminals.

**2.1.6** Connect the three short wires (“L” Brown, “N” Blue and “IC White) from the Ei129 Module to the connector block on the Smoke/Heat/Fire Alarm Easi-Fit Mounting Plate. Connect the earth wire (if present) from the house wiring directly to the terminal on the Easi-Fit Mounting Plate (see relevant Smoke/Heat/Fire Alarm instructions). Replace the cover over the terminal wires on the mounting plate.

**2.1.7** Screw the Mounting Plate to the Ei129 Module Base pillars using the two screws supplied.

**2.1.8** Slide the alarm on to the mounting plate.

**2.1.9** Re-Connect the mains power – the green LED on the alarm should be on. Check the alarms as per their instruction manuals by pressing the test buttons.

**NOTE:** A maximum of 12 Smoke/Heat/Fire Alarms of the types specified may be interconnected to one or more Ei129 Alarm Trigger Modules.

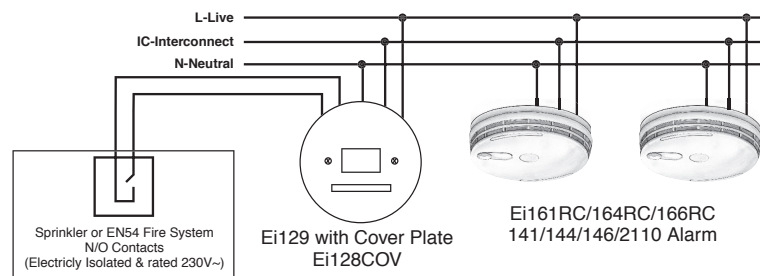
**2.1.10** Trigger the external contacts (e.g. at the Sprinkler System Control Panel or the EN54 Fire System Panel) and check that all the Smoke / Heat / Fire Alarms sound.

**2.2 Installation of Ei129 with Cover Plate Ei128COV**

**2.2.1** If it is not convenient to install the Ei129 Module under an alarm and / or it is preferable to mount it near the external contacts then it can be installed as described above on a suitable wall or ceiling. An Ei128COV Cover Plate is needed which must be purchased separately.

**2.2.2** Connect the wires from the alarms (L – Live, N – Neutral, and IC – Interconnect) to the terminal block on the Ei129 Module as shown in Figure 1. Then connect the two wires from the external N/O contacts to the “CONTACTS IN “ terminals.

**2.2.3** Important: Now remove the three short sleeved wires from the central terminal block on the circuit board on the Ei129 as they are now not needed (see figure 1). This is essential to prevent them shorting and damaging the alarms or blowing fuses.



**Figure 3**

**2.2.4** Screw the Ei128COV Cover Plate to the Ei129 Module using the two screws supplied.

**2.2.5** Now follow the instructions from 2.1.9 and 2.1.10 above and check the system is operation correctly.

### 3. Checking and Maintaining Your Fire Alarm System

**3.1.1** We recommend a weekly check is made of your Alarm System as described in the Smoke/Heat/Fire alarm instructions. When checking the system also check the green light is lit on the nearest alarm to the Ei129 module.

**3.1.2** When the external system is being routinely checked (e.g. the Sprinkler System or the EN54 Fire Alarm 24V System), the contacts connected to the Ei129 Module should be operated. Check that all the alarms connected to the Ei129 Module, sound.

#### **3.2** Checking the Back-Up Lithium Cells in the Ei129

It is important to check that the rechargeable cells in the Ei129 Module are charged and capable of triggering all the alarms to sound. This should be done after installation and then at least annually (when Smoke/Heat Alarms rechargeable cells are being checked).

**3.2.1.** Disconnect the mains supply. Trigger the Ei129 Module as described in 3.1.2 above. Check all the alarms sound loudly. If everything is satisfactory, re-connect the mains.

#### **3.3** End of Life

After 10 years, or if it fails to operate and the fault has been traced to the Ei129, it is defective and must be replaced. (See the 'replace by' label on the side of the Ei129 Module base).

### 4. Getting your Alarm Trigger Module serviced

If you Ei129 Module fails to work after you have carefully read all the instructions, checked that the unit has been installed correctly, and is receiving AC power, then contact Customer Assistance at the nearest address given at the end of this leaflet. If it needs to be returned for repair or replacement, remove the unit. Put the Ei129 Module in a padded box and send it to "Customer Assistance And Information" at the nearest address given on the unit or in this leaflet. State the nature of the fault, where the Base was purchased and date of purchase.

### 5. Five Year Guarantee

Ei Electronics, guarantees the Ei129 Module for five years from date of purchase against any defects that are due to faulty materials or workmanship. This guarantee only applies to normal conditions of use and service, and does not include damage resulting from accident, neglect, misuse, unauthorised dismantling, or contamination howsoever

caused. This guarantee does not cover costs associated with the removal and/or installation of units. If this Module should become defective within the guarantee period, it must be returned to with proof of purchase, carefully packaged, and with the problem clearly stated to one of the addresses detailed below (see "Getting your Alarm Trigger Module serviced"). We shall at our discretion repair or replace the faulty unit.

Do not interfere with the Module or attempt to tamper with it. This will invalidate the guarantee, but more importantly may expose the user to shock or fire hazards. This guarantee is in addition to your statutory rights as a consumer.

The crossed out wheelie bin symbol that is on your product indicates that this product should not be disposed of via the normal household waste stream. Proper disposal will prevent possible harm to the environment or to human health. When disposing of this product please separate it from other waste streams to ensure that it can be recycled in an environmentally sound manner. For more details on collection and proper disposal, please contact your local government office or the retailer where you purchased this product.



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## Technical Specifications

Supply Voltage:	230V AC, 50Hz, 25mA, 0.5W.
Battery Back-Up:	Rechargeable Lithium Cells. Standby back-up will last up to 12 months. Alarm Back-up will last up to 20 Hours.
Alarm Connection:	Up to 12 Ei2110/Ei141/Ei144/Ei146 Ei161RC/Ei164RC/Ei166RC/Ei261ENRC Smoke/Heat/Fire/CO Alarms can be connected to one or more Ei129 modules
Trigger Input:	Normally Open Contacts that are 230VAC mains rated and electronically isolated. (EN54 Fire Systems, 24V, normally require Input/Output Units such as Hochiki CHQ- MRC-Mains Relay Controller or Apollo XP95 Mains Isolated Input/Output Unit.
Fixing:	Mounts directly under any Ei140, Ei160RC or Ei2110 series alarm. Alternatively can be remotely sited when used with an Ei128COV Cover Plate (Purchased Separately).
Temperature Range:	0°C to 40°C
Humidity Range:	0% to 95% R.H.
Dimensions:	141mm (dia) x 25mm (height)
Weight:	160g
Guarantee:	5 year (limited)
Electrical Safety:	Complies with BSEN60065: 2002 (Tested by BSI)
Approvals:	CE Marked