HiSPEC

RELAY OUTPUT FOR SMOKE ALARM AND HEAT ALARM

MODEL : HSSA/RB

Main Features :

- **Normally Open / Normally Close / Common From Relay**
- **Knock-outs Provide Flexibility Of Cable Entry**
- **Easy Installation**
- **Robust ABS Design**
- **Supplied With Wall Plugs & Screws**

This instruction leaflet contains important information on the correct installation and operation of your Relay Pattress. Read this leaflet fully before attempting installation and retain for future reference.

SPECIFICATIONS

Power Source: AC 230V 50Hz 40mA,
Relay Max. Switching Voltage: AC 240V, DC 60V
Relay Max. Switching Current: 3A
Relay Rating: 1A at 120V AC, 2A at 24VDC
NO/NC/C volt-free contacts
Dimension: 110 mm (D) X 22 mm (H)
Knock-outs: 2 x 20mm, 2 x 28mm

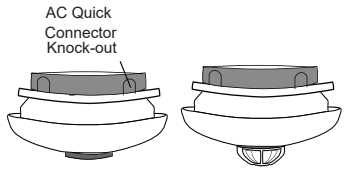
PRODUCT DESCRIPTION

This pattress box with relay module is an accessory for use only with Hispec's smoke or heat alarms and is used to activate auxiliary devices. All devices to be activated must be 220~240V, 50Hz, or 60V DC 3 Amps maximum.

APPLICATION

This pattress box complete with relay contacts is designed with universal surface mounting facility matched with Hispec smoke alarms or heat alarms.
Its specific application is when the smoke alarm or heat alarm is triggered (alarmed), this pattress box can be operated to a remote external electrical system such as an automatic door release, or security system

- Confirm the fixing position by checking the installation details of the smoke alarm or heat alarm.
- Connect the wiring to the terminal block as detailed below. Ensure that all connections are secure and no bare wires are left free of the terminals. The live wire can only connect either Normal Open or Normal Closed.



READ THIS FIRST

Carry out installation in accordance with the latest edition of BS7671: Wiring Regulations and The Building Regulations.

- Switch off the mains before commencing installation and remove the appropriate circuit fuse.
- Disconnect the base / detector from the electrical supply before flash or high voltage testing i.e Insulation Resistance testing.
- Do not connect to a circuit which also has inductive loads e.g fans connected as spikes generated switching inductive loads may damage electric components within your detector.
- Suitable for indoor use only.
- Before making fixing hole(s), check that there are no obstructions hidden beneath the mounting surface such as pipes or cables.
- The chosen location of your new base should allow for the product to be securely mounted (e.g. to a ceiling joist) and safely connected to the mains supply.
- Do not attach to surfaces with are damp, freshly painted or otherwise electrically conductive (e.g. metallic surfaces).
- Smoke alarms and heat alarms must be mounted at least 300mm from lights fittings or other obstructions, see the alarms instructions.
- Make connections to the electrical supply in accordance with the following code:
  Live – Brown or Red
  Neutral – Blue or Black
  Interconnect – White (If you are NOT interconnecting to other units, DO NOT connect any wire to this terminal)

INSTALLING THE RELAY PATTRESS

Failure to install correctly mayresult in a fatal shock or fire hazard.

The circuit used to power the smoke alarm must be a dedicated permanent supply that cannot be switched off accidentally by the normal user. Before installing ensure the electrical supply is isolated. (Refer to manufacturer literature / manual of smoke alarm)

- Secure the pattress box to the ceiling using the screws and wall plugs supplied.
- Fit your smoke alarm or heat alarm to your patress box.

Connect the wires (with smoke alarms or heat alarms). See wiring diagram below.
Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. New regulation will encourage the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005)

Diagram of Relay Base showing terminal connections and a blow-up diagram of the relay switch terminals

Fig. 1

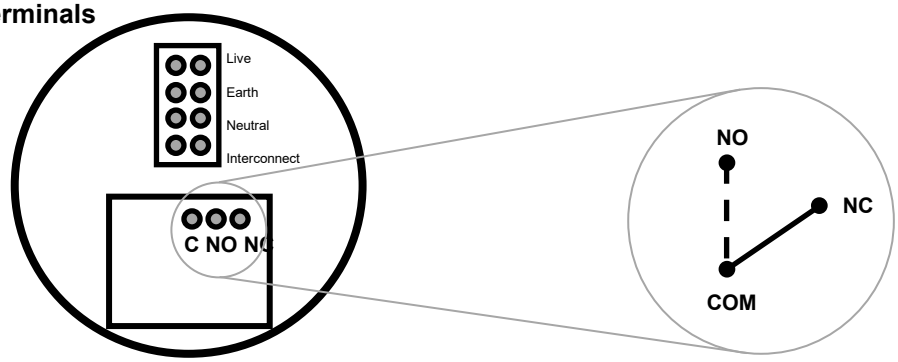


Diagram of Relay Base showing connections to an extractor fan (mains supply to relay base not shown)

Fig. 2

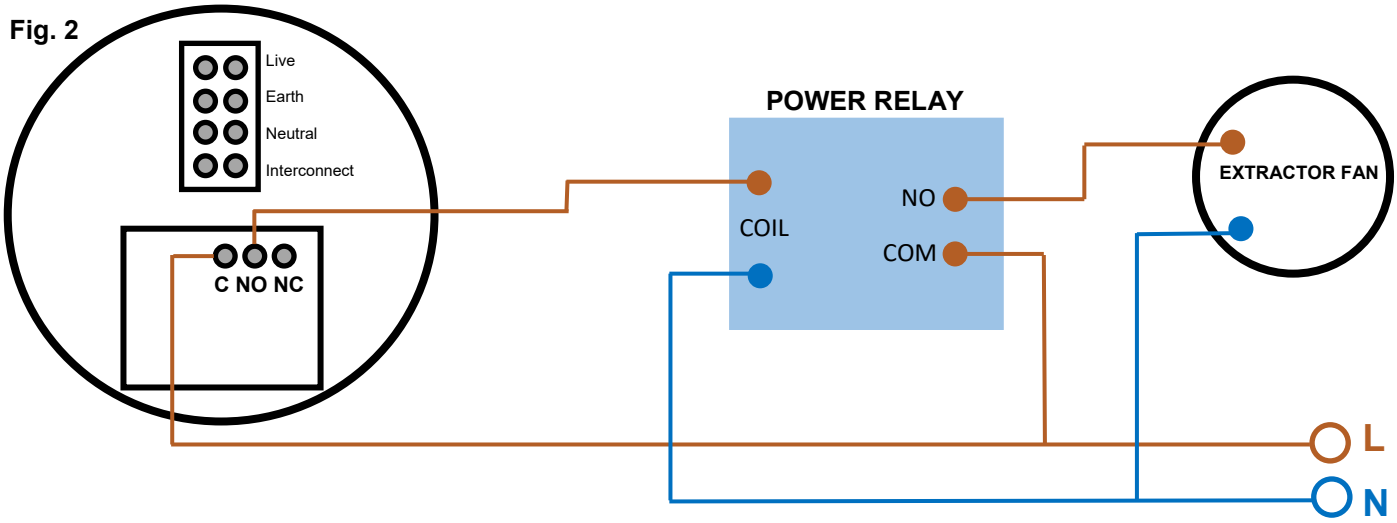
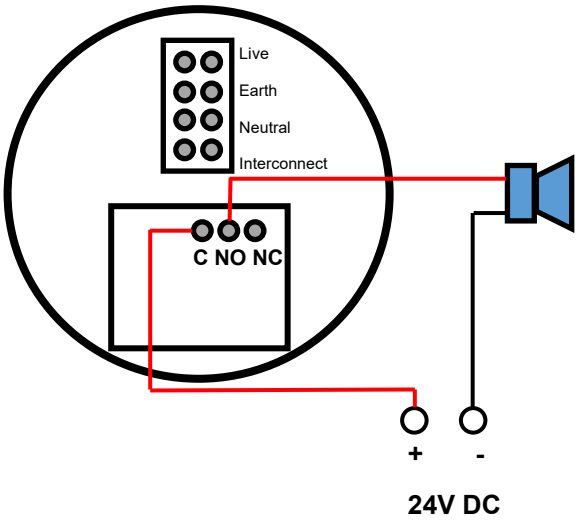


Diagram of Relay Base showing connections to an external sounder (mains supply to relay base not shown)

Fig. 3



Connection Instructions

Mains Terminal Block:

Live – 230V AC mains (Brown)
Earth – Mains earth cable termination (Green/Yellow)
Neutral – 230V AC mains (Blue)
Interconnect – For interlinking between other alarms (White)*

*DO NOT CONNECT ANYTHING ELSE TO THE INTERCONNECT TERMINAL – LEAVE EMPTY IF NOT IN USE – IT IS AN EXTRA LOW VOLTAGE SIGNAL ONLY!

Relay Connections (see **Fig. 1**):

COM – Use this as the "input" terminal
NO – This is a "Normally Open" switch terminal
NC – This is a "Normally Closed" switch terminal

The relay has "volt free" terminals, so can be used to switch anything within its rated load limits.

Using the COM as the input terminal, the NO (output) terminal can be connected to something which is normally OFF in its operation, but is wanted to be turned on by activation of the smoke alarm (e.g. an external sounder or beacon, or a trigger for a separate alarm system). See example in **Fig. 3**

Using the COM as the input terminal, the NC (output) terminal can be connected to something which is required to have power all the time, but is turned OFF by the activation of the smoke alarm (e.g. a trigger for a separate alarm system, or use the relay as a low current contactor to switch a higher capacity relay controlling an extractor fan, cooker power supply, etc). See example in **Fig. 2**