

**Models:**

ISR4002: 2 Stage Relay  
ISR4004: 4 Stage Relay

**ISR400n**

**Staging Relays**

**Specifications**

**Power Supply**

Voltage: 24VAC ±10% @ 50/60Hz OR  
Power Consumption: 4VA Max.

**Input**

ISR4002 Two separate 0-10VDC Inputs  
ISR4004 Four separate 0-10VDC Inputs

**Outputs**

One N/O voltage free contact per stage (2A max.)

**Input Terminal Identification**

|    |                                |
|----|--------------------------------|
| 5  | 0-10VDC Input 1                |
| 6  | 0-10VDC Input 2                |
| 7  | 0-10VDC Input 3 (ISR4004 only) |
| 8  | 0-10VDC Input 4 (ISR4004 only) |
| 9  | Common and 0VAC Supply         |
| 10 | 24VAC Supply                   |

**Relay Terminal Identification**

A to H One N/O voltage free contact per stage

**Temperature Ratings**

Storage: 0-50°C non-condensing  
Operating: 0-40°C non-condensing

**Enclosure**

Manufactured from an ignition resistant grade of ABS which meets the requirements of AS2420.

Colour: Grey  
Mounting: DIN rail mounted

**DIN Rail Mounted Enclosure**

The INNOTECH enclosure is designed to provide tight positive locking to varying thicknesses of DIN rail. When fitting to thick DIN rail, it may be necessary to remove the packing tabs on the back of the base.

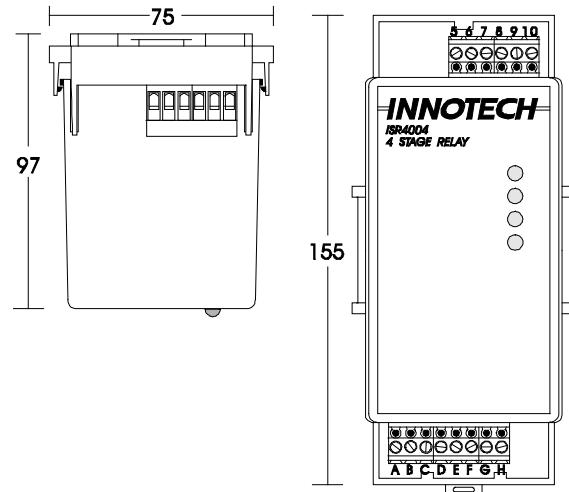
Lugs on each side of the base ensure that correct spacing is maintained between units on the same DIN rail.

**Installation**

1. Mount controller is a dry and reasonably clean location free or excessive vibration.
2. Fit to DIN Rail.
3. Wire in accordance with INNOTECH connection diagrams and local bylaws or refer to your local distributor.

**Wiring**

1. Earth one side of the 24VAC at the transformer.
2. Connect the EARTHED side of the 24VAC to terminal 9.
3. DO NOT connect 24VAC to terminals 5 through 8.



**Application**

The INNOTECH range of ISR Staging Relays are designed for applications where the staging of heating and cooling needs to be customised.

**Features**

- Relay ON/OFF voltages independently and accurately adjustable from 0-10VDC
- LED indication of relay status
- The INNOTECH enclosure saves space and reduces installation time

**Relay Contact Configuration**

The ISR staging relays are supplied as standard with normally open contacts on all relays. They can be factory supplied with normally closed contacts.

**Relay ON/OFF Voltage Adjustment**

The turn ON and OFF points for each stage are individually adjustable by the ON and OFF multi-turn pots. The settings can be read at the individual test points with a suitable digital multimeter.

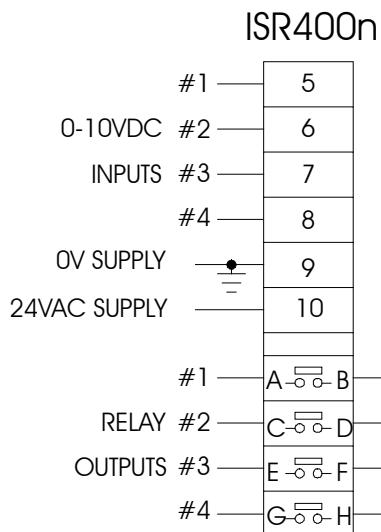
**Direct/Reverse Action Settings**

The ISR card is supplied with the solder links open, which gives Direct Acting operation of the relays. Closing the solder link on the PCB selects Reverse Acting operation of the relays.

**Power On Delay**

The relays are locked out for approximately five seconds at power on to prevent relay chatter while the control circuit is being powered up.

★ STANDARD CONNECTION



**Relay Terminal Connection**

| Model | Terminal Identification |         |         |         |
|-------|-------------------------|---------|---------|---------|
|       | Stage 1                 | Stage 2 | Stage 3 | Stage 4 |
| 4002  | A-B                     | C-D     |         |         |
| 4004  | A-B                     | C-D     | E-F     | G-H     |

★ Requires link changes for REVERSE acting operation

**INNOTECH®**

Australian Owned, Designed & Manufactured  
by Mass Electronics Brisbane

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