

Models:

ISR4202: 2 Stage Delayed Staging Relay
ISR4204: 4 Stage Delayed Staging Relay

ISR420n

Delayed Staging Relays

Specifications

Power Supply

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

Input

One 0-10VDC Control Input

Outputs

One N/O voltage free contact per stage (2A max.)
One N/C voltage free contact for the 3rd and 4th stage (ISR4204 only)

Delay Times

Ramp UP 30 seconds to 15 minutes
Ramp DOWN 25 seconds to 12 minutes

Input Terminal Identification

4	0-10VDC Control Input
5	Delayed 0-10VDC Control Output Aux.
9	Common and 0VAC Supply
10	24VAC Supply

Relay Terminal Identification

A to H	One N/O voltage free contact per stage
I to J	One N/C voltage free contact for the 3rd and 4th stage (ISR4204 only)

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

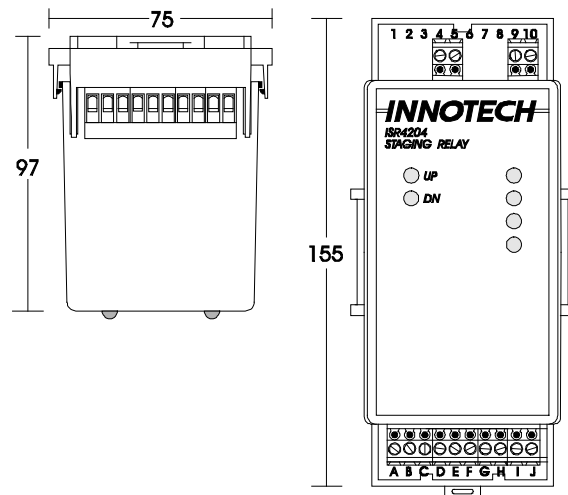
1. Mount controller in a dry and reasonably clean location free or excessive vibration.
2. Fit to DIN Rail.
3. Wire in accordance with INNOTECH connection diagrams and local bylaws or refer to your local distributor.

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 4 and 5.

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.



Application

The INNOTECH range of ISR Staging Relays are designed for applications requiring a 0-10VDC control signal with an adjustable time delay to control up to four stages of heating, cooling or fans used in air conditioning and associated systems where the on/off voltages need to be customised.

Features

- Independently adjustable Ramp UP and DOWN times
- LED indication of Ramping direction
- Relay ON/OFF voltages independently and accurately adjustable from 0-10VDC
- Field selectable Direct/Reverse Acting
- LED indication of relay status
- The INNOTECH enclosure saves space and reduces installation time

Delay Adjustment

The time for the output to ramp from 0V to 10VDC is adjustable from 30 seconds to 15 minutes by the Ramp UP pot. The Ramp Down time is adjustable from 25 seconds to 12 minutes by the Ramp DOWN pot.

The above delay times are for standard units, but they can be factory supplied with custom times.

Relay Contact Configuration

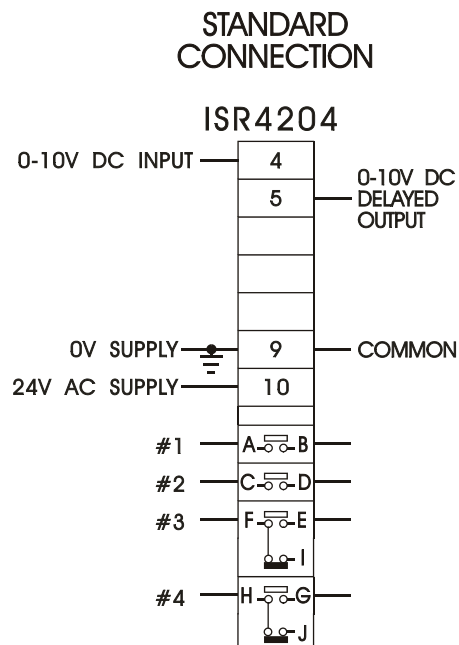
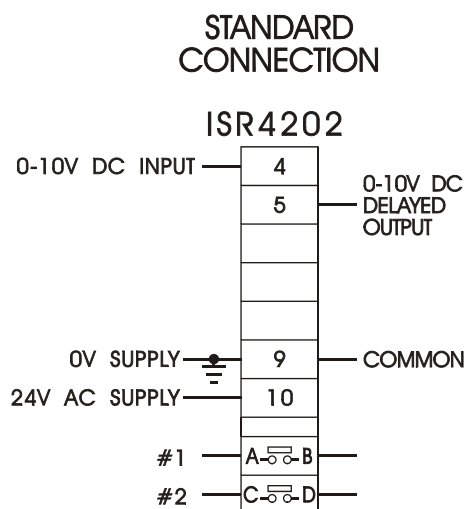
The ISR staging relays are supplied as standard with normally open contacts on all relays. They are also supplied with normally closed contacts on stage 3 & 4 (ISR4204) only.

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.



✱ Requires link changes for REVERSE acting operation

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