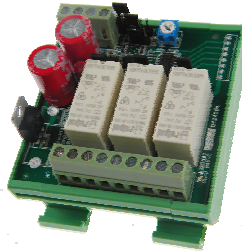




3 Stage Relay Module IOR3

Description:

The IOR3 Relay module is used to convert an analogue signal to 3 digital outputs using 3 volt free relays. Typically it is used to control valve and damper actuators giving clear LED indication.



Features:

- ◆ Din Rail Mounting.
- ◆ Relay Status LED indication.
- ◆ Link selectable output modes .
- ◆ 24Vac/dc supply
- ◆ Jumpers for hand, off, auto for ease of commissioning.

Technical Specification:

Input: 0-10Vdc 1mA min into 22K Ω impedance.
Output: 8Amp @230Vac (Resistive)
Supply Voltage: 24Vac/dc +/- 10%
Operating Modes: Binary, Sequenced, Staged, Aux/ RL
LED Indication: See description under LED Status
Termination: Rising Clamp for 0.5 to 2.5mm² Cable.
Ambient: -10 to +40°C
Dimensions: 58mm(W)x50mm(D)x76mm(H)

LED Status:

The Green LED indicates "power On"
 Flashing Green LED indicates out of tolerance supply voltage.
 Alternate flashing Red, Green LED indicates "Jumper missing"
 Flashing Red LED indicates "Signal input voltage above 10 Volts"

Order Codes:

IOR3 3 Stage Relay Module

Installation

1. Disconnect power before carrying out any wiring on the IOR2.
2. Maximum Wire size 2.5mm² take care not to over tighten the terminal screws.
3. Follow the wiring diagram below. Power supply should be 24V +/-10% ac or dc
4. The Volt Free Contacts are single pole change over.
5. The input signal must be 0-10Vdc at a minimum of 1mA
6. The small potentiometer can set a time delay from 0 to 25 seconds this is used to stop hunting caused by a fluctuating input signal.

Switching sequences

Binary (BIN) 0-10V:

Nominal	Relay1	Relay2	Relay3
0.63Vdc	OFF	OFF	OFF
1.88Vdc	ON	OFF	OFF
3.13Vdc	OFF	ON	OFF
4.38Vdc	ON	ON	OFF
5.63Vdc	OFF	OFF	ON
6.88Vdc	ON	OFF	ON
8.13Vdc	OFF	ON	ON
9.38Vdc	ON	ON	ON

Heat/Cool (H/C) 0-10V:

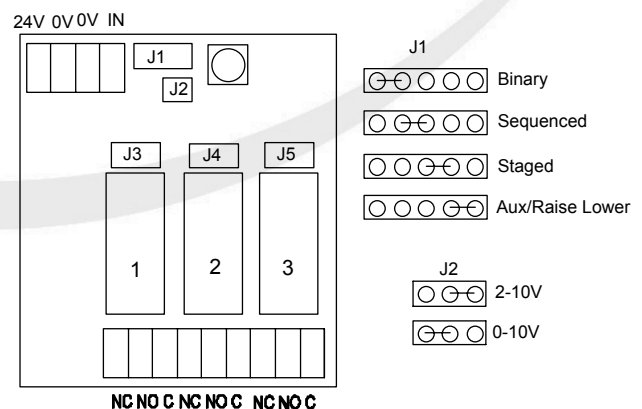
Nominal	Relay1	Relay2	Relay3
1.50Vdc	OFF	OFF	OFF
4.25Vdc	ON	ON	OFF
6.75Vdc	ON	OFF	OFF
9.00Vdc	ON	OFF	ON

Sequenced (SEQ) 0-10V:

Nominal	Relay1	Relay2	Relay3
1.50Vdc	OFF	OFF	OFF
4.25Vdc	ON	OFF	OFF
6.75Vdc	OFF	ON	OFF
9.00Vdc	OFF	OFF	ON

Staged (STG) 0-10V

Nominal	Relay1	Relay2	Relay3
1.50Vdc	OFF	OFF	OFF
4.25Vdc	ON	OFF	OFF
6.75Vdc	ON	ON	OFF
9.00Vdc	ON	ON	ON



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