



2 Stage Relay Module IOR2

Description:

The IOR2 Relay module is used to convert an analogue signal to 2 digital outputs or proportional control of a Raise Lower actuator using 2 volt free relays. Typically it is used to control valve and damper actuators giving clear LED indication.

Indication of status with jumper selection for commissioning purposes.



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)

Order Codes:

IOR2 Two Relay Module

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"

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.

Staged

Nominal	Relay 1	Relay 2
0Vdc	OFF	OFF
5 Vdc	ON	OFF
10 Vdc	ON	ON

Binary

Nominal	Relay 1	Relay 2
0Vdc	OFF	OFF
4.0 Vdc	ON	OFF
7.0Vdc	OFF	ON
9.2Vdc	ON	ON

Sequenced

Nominal	Relay 1	Relay 2
0Vdc	OFF	OFF
5 Vdc	ON	OFF
10 Vdc	OFF	ON

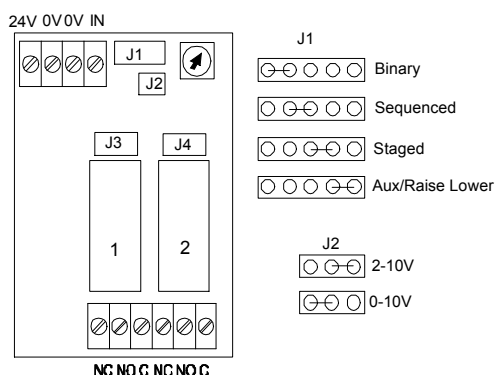
Aux/Time Proportional Raise/Lower

This Function enables a 0-10V signal to control a 3 point control, Valve or Damper actuator:
 By setting the on board trimmer to the run time of the valve it will make the 0-10V proportional to the run time. Increased input signal will operate relay 1 and decrease will operate relay 2.
 At 0V and 10v input the module will provide a double pulse to allow the actuator to find the fully closed or open point.

100 secs

15 secs

180 secs



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