



HPR6 – Interposing Relay Module, 6 Channel SPDT, Opto-Isolated

The HPR6 provides six individual SPDT relays that may each be triggered by 5...30Vdc or 12...48Vdc making each relay channel universally suitable for operation by digital outputs or analogue outputs. The control input circuits are opto-isolated from the relay circuits.

Features include:

- Status indication LED per channel
- Auto/Off/Manual switch per channel
- Three position switching threshold setting jumper for analogue signals (4Vdc, 6.5Vdc or 9.5Vdc)

The switched outputs are 250VAc rated, 10A resistive / 7A inductive on the normally open contact (n/o) and 6A resistive on the back contact (normally closed contact – n/c)

Using the HDA00xx DIN rail adapters the housing uses less linear DIN rail space than a traditional relay and base method of providing a barrier between control devices and the devices in the field.

Description

HPR6 Relay module, 6 channel opto-isolated, universal control input, 250VAc SPDT 10(7)A / 6A relay output, HOA, 24VAc



Caution



The relay outputs are rated for up to 250VAc and as such the power supply to the relay outputs should be switched off before carrying out any alterations or maintenance



Only suitably qualified personnel should undertake any maintenance of the device

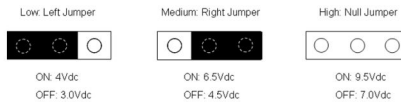


Observe local regulations with regard wiring and circuit protection

Analogue Signal Jumper Setting

Setting

When switching the relays via an analogue signal it is possible to select one of three switching thresholds via a three position jumper for each channel.

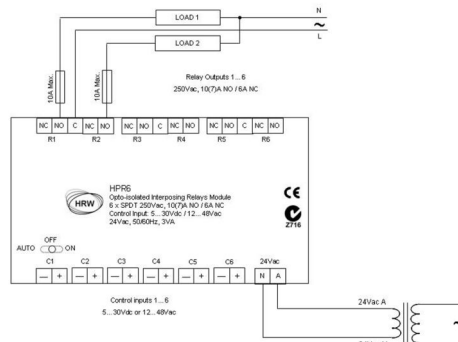


With an analogue output with at least 1.5mA capacity it is possible to connect one AO to three channels in parallel to achieve three stage control of the connected relay channels.

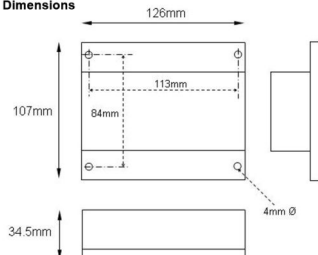
AO's with lesser capacity may switch two channels at the two lower stage settings or may switch multiple relays all at the lower threshold settings (all channels switching simultaneously).

In normal use as an interposing relay, switched via a digital signal, we recommend to leave the jumpers in the null position.

Connections



Dimensions



Technical Data

Power supply: 24VAc, 3VA, 50/60Hz
 Control input voltage: 5...30Vdc or 12...48Vdc
 Vdc hysteresis: Jumper left: On 4.0Vdc, Off 3.0Vdc (+/- 5%)
 Jumper right: On 6.5Vdc, Off 4.5Vdc
 Null jumper: On 9.5Vdc, Off 7.0Vdc
 Based on maximum three channels/stages controlled in parallel, 1.5mA AO capacity
 Relay outputs: SPDT (Form C), 250VAc 10A resistive / 7A inductive normally open, 6A resistive normally closed
 Insulation resistance: 100MΩ (500Vdc)
 Voltage withstand: Contact to contact – 0.75kV, 1 minute
 Contact to coil – 1.5kV, 1 minute
 Relay coil life: 10,000,000 million operations
 Relay contact life: 100,000 operations @ 7A resistive
 50,000 operations @ 10A resistive
 Relay contact face: Ag
 Transition time: Closing – 8msec max.
 Opening – 5msec max.
 Conformity: CE, Z716, RoHS COMPLIANT 2002/95/EEC
 Operating temperature: 0...50°C (32...122°F)
 Storage temperature: -5...75°C (-40...167°F)
 Operating humidity: 10...95%RH (non-condensing)
 Dimensions: 107mm x 126mm x 35mm