

SEZ-QUAD

4 STAGE RELAY EXPANSION MODULE 0-10Vdc input

Features

- Australian Made and designed
- Easy Analog Setup with Individual Adjustments
- Four Independent 8 Amp (2.5) Relays
- LED Indication of Relay Outputs Status
- Mounts in most M.C.B din rail enclosures
- Settable as 2 stage direct acting / 2 stage reverse acting.

Use

The SEZ-QUAD is typically used as an expansion module where extra on/off relay outputs are required responding to either a common or individual 0 to 10vDC control signals. Each relay stage turn on point and switching differential (hysteresis) can be set individually in relation to its 0-10vdc input. The status of each relay is indicated by a red L.E.D.

Dip switches next to the input terminals allow setting of the four stages to work independently or from a common source.

Two of the relays have change over contacts (spdt) and 2 have normally open only (spst).

Internal shorting jumpers also allow for the 4 relays to be configured such that relays can be controlled by X1, but with some energizing as the X1 input falls below 5 volts and other relays energize above 5 volts ---this is typically intended for use as a 2 stage heating / 2 stage cooling step controller from one common 0-10v signal (with 5v equating to setpoint- all relays off) from a temperature controller producing one 0-10vdc signal for temperature control.



**TRULY Designed & Made in
Australia By a
100% Australian Owned Company**

Technical Data

General Specifications

Operating Voltage	24 Volts AC
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Power Consumption	5 VA
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Switching Capacity of Relays

Voltage	AC 0...250 Volts
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Current	8.0 (2.5) Amps
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Relay Switch ON Points (Dead band from zero)	1 to 10vdc
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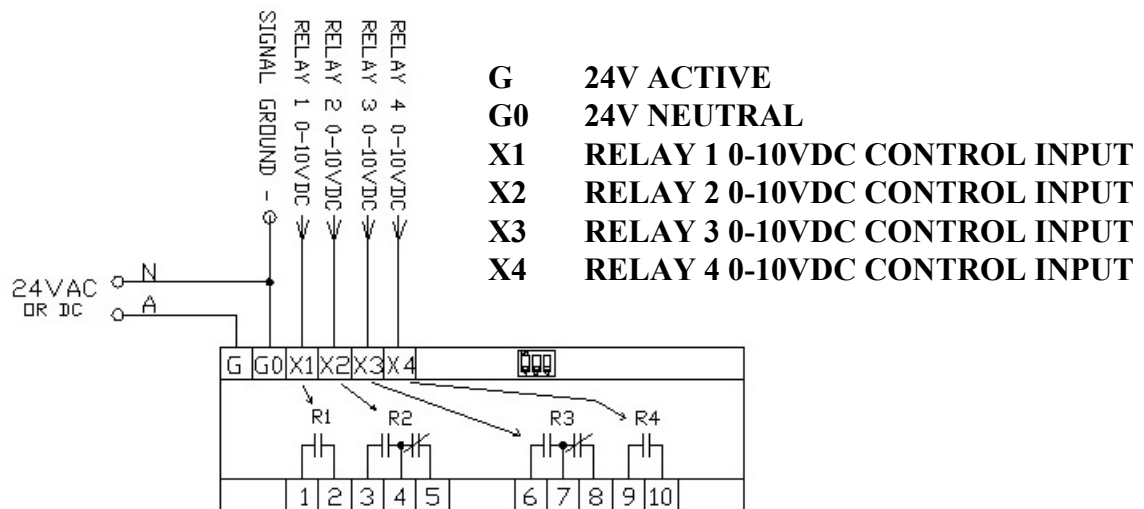
Relay Hysteresis (Switching Differential)	1 to 6vdc
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Output Indication

Relay On/Off Status	4 x Red LED
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Environmental Conditions	Operation	
	Ambient Temperature	0...45oC
	Humidity	< 85 % RH (Non Condensing)
	Storage and Transport	
	Ambient Temperature	-5...65oC
	Humidity	< 90 % RH (Non Condensing)
Weight	Including Packaging	600 grams
Housing	Colour	Grey
	Material	ABS POLYCARB
	UV Stabilised	YES
	Fire Retardant	YES
	Size	L105mm x W105mm x D60mm
	Mounting Method	35mm Din Rail Mountable

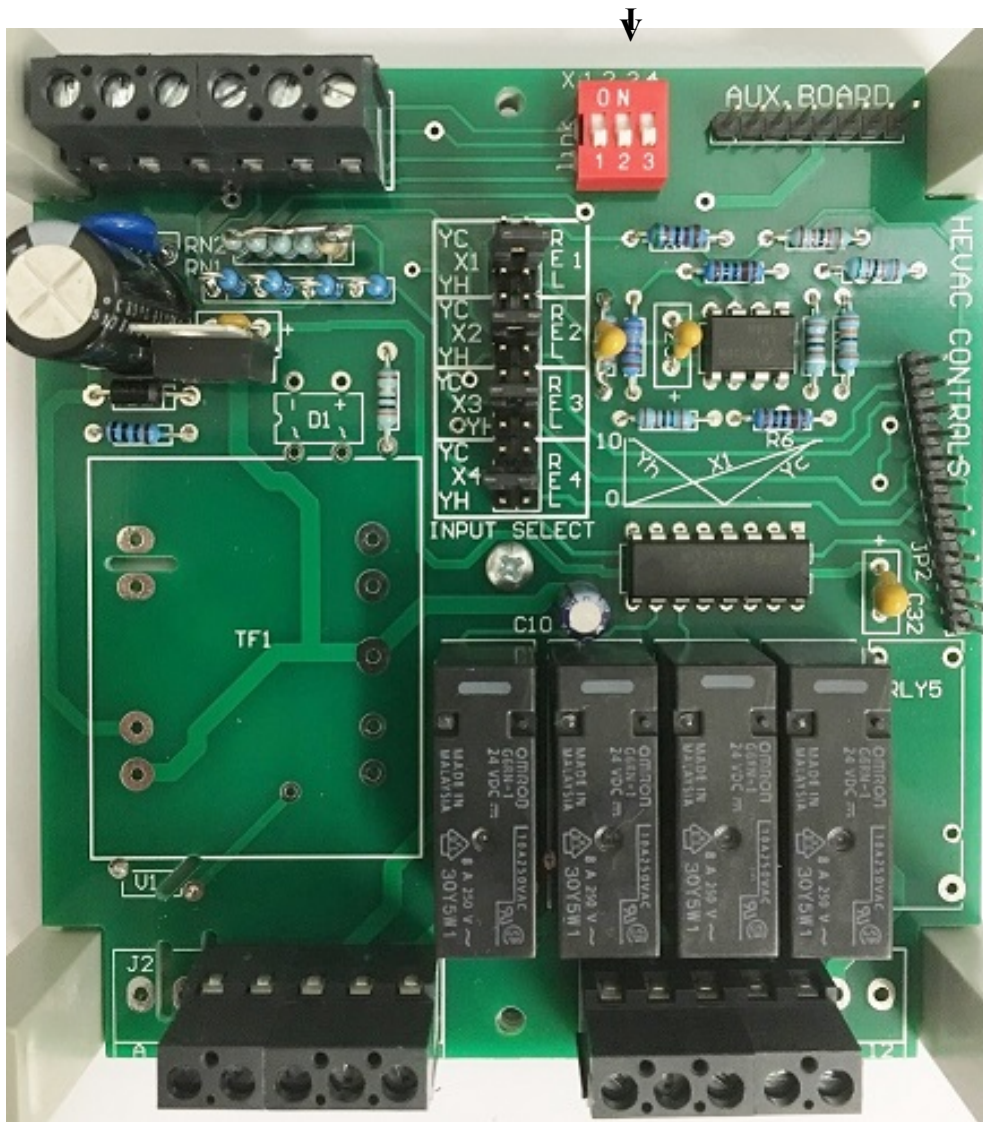
Terminal Designations



1	RELAY 1 N/O	6	RELAY 3 N/O
2	RELAY 1 COMMON	7	RELAY 3 COMMON
3	RELAY 2 N/O	8	RELAY 3 N/C
4	RELAY 2 COMMON	9	RELAY 4 N/O
5	RELAY 2 N/C	10	RELAY 4 COMMON

DIP SWITCH AND JUMPER SETTINGS

RED DIP SWITCHES 1-3 CAUSE RELAYS INPUTS X1-X4 TO BE INTERNALLY LINKED TO SAVE FITTING EXTERNAL WIRE LOOPS BETWEEN INPUTS FOR COMMON SIGNAL TO MORE THAN ONE INPUT. DIP SW. 1 JOINS "X2" TO "X1", DIP SW.2 JOINS "X3" TO "X2", DIP SW. 3 JOINS "X4" TO "X3". TO HAVE ALL RELAYS RESPOND TO "X1" TURN ALL 3 DIP SWITCHES ON (UP).



< jumpers allowing YH / YC control from a single X1 input

EXPOSED MAIN PCB SHOWING INTERNAL JUMPER SELECTORS TO ENABLE OUTPUT RELAYS TO BE CONTROLLED BY THEIR "X" INPUTS OR FROM THE INTERNALLY GENERATED "YH & YC" (X1 SPLIT INTO 2 EQUAL OPPOSITE OUTPUTS) THAT CAUSE DIRECT OR REVERSE ACTING RELAY OUTPUT IN RESPONSE TO THE "X1" INPUT SIGNAL , ie 2 stage heat / 2 stage cool in response to one 0-10v signal.

EACH RELAY HAS INDIVIDULE TURN ON AND SWITCHING DIFFERENTIAL ADJUSTMENTS IN RELATION TO ITS 0-10V DC INPUT SIGNAL.

INPUT X1 CONTROLS RELAY 1

INPUT X2 CONTROLS RELAY 2 (WITH DIP SW. 1 OFF)

INPUT X3 CONTROLS RELAY 3 (WITH DIP SW. 2 OFF)

INPUT X4 CONTROLS RELAY 4 (WITH DIP SW. 3 OFF)

