



SEZ-HAUX-AV

ANALOGUE AUXILIARY EXPANSION MODULE

Features

- Power Supply can be 24VAC or DC
- 0-10vdc Signal Booster
- 0-10vdc Signal Inverter
- 0-10vdc Signal Doubler
- 0-10v Averaging Signal Selector 7 Input
- 2 x 0-10V Input Switching Relays
- Individual Adjustable Relay Turn On Points
- Each Signal Conditioner Has Separate I/O
- Mounts In Most M.C.B Din Rail Enclosures
- Inputs & Outputs Diode Clamp Protected
- Inputs & Outputs Current limited (series resistor)

Use

The **SEZ-HAUX-AV** is intended for use as an auxiliary expansion module with various outputs responding to individual 0 to 10 volt input signals.

The module incorporates :

One 0-10vdc **Signal Booster** input (X1) useful for when the load on a signal exceeds its output power capabilities ..example : several VSD's or damper motors driven from one 0-10v signal. 3 parallel outputs (Y1, Y2 & Y3) are available (from the common X1 input) each capable of driving loads of 1 mA at 10vDC (>10k ohm load) each.

One 0-10vdc **Signal Doubler** - generating in sequence two 0-10vdc output signals from input X2 . 0 - 4.8 = 0-10vdc on Y4, and 5.2 - 10v = 0 to 10vdc on Y5.

One 0-10vdc **Signal Inverter** that inverts the signal on X3 to a 10-0vdc signal output on Y6.

Two independent **0-10vdc Controlled Relays**. Input X4 controls relay 1, input X5 controls relay 2. Relays have independent c/o contacts rated at 8 amps (resistive).

One **Averaging Signal Selector** Resistor array with 7 inputs (X7-X12) , the average of the 0-10vdc signals connected is output on terminal Y7.



Made in Australia
100% Australian Owned Company

General Specifications

Operating Voltage	24 Volts AC or DC
Power Consumption	
At 24vAC	2.5 VA
At 24vDC	100 mA
Input Terminals	
Signal Input Voltage's	0-10 Volts DC
inputs signal load	0.3ma
Analogue outputs	
ouput signals	0-10 Volts DC
output load ea.	1 mA@ 10vDC
Relay Outputs	
2 x Potential free SPDT rated at 8 Amps resistive / 2 Amps inductive	
ON Point Adjustment	1V to 9.5 Volts DC
Switching differential	fixed at 0.5 volts

Environmental Conditions

Operation	
Ambient Temperature	0...45oC
Humidity	< 85 % RH (Non Condensing)
Storage and Transport	
Ambient Temperature	-5...65oC
Humidity	< 90 % RH (Non Condensing)

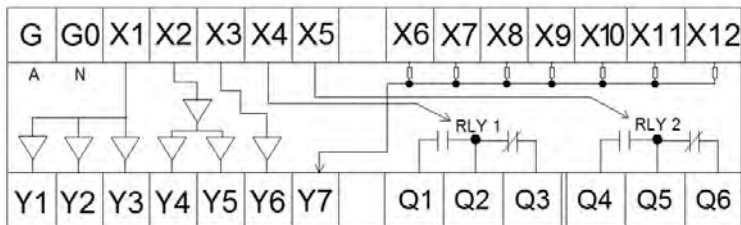
Weight

Including Packaging	200 grams
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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



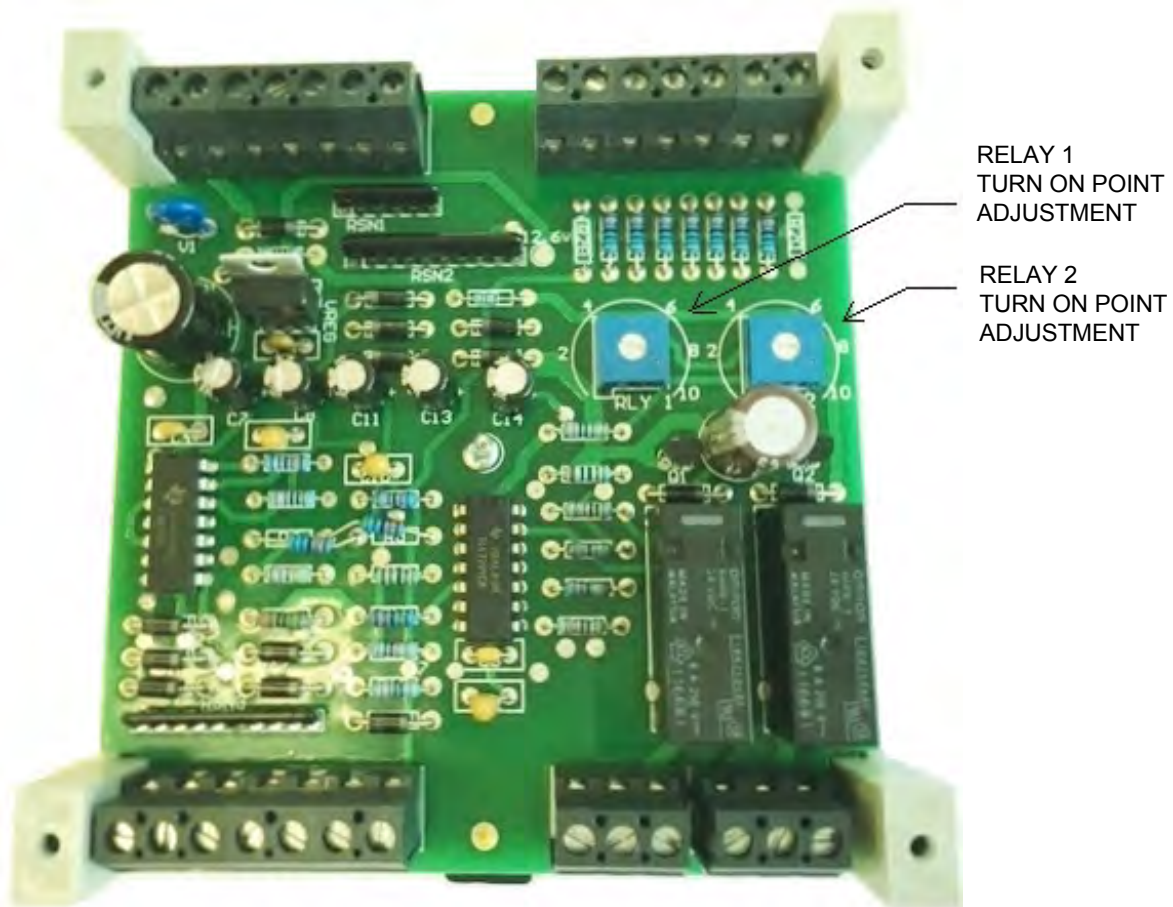
G 24 Volt Supply Active
 G0 24 Volt Supply Neutral / Ground Reference

X1 Signal Booster Input
 X2 Signal Doubler Input
 X3 Signal Inverter Input
 X4 Relay 1 Control Input
 X5 Relay 2 Control Input
 X6-X12 Avg.-Signal Inputs

Y1 Booster Output 1
 Y2 Booster Output 2
 Y3 Booster Output 3
 Y4 Signal Doubler Output 1
 Y5 Signal Doubler Output 2
 Y6 Inverted Signal Output
 Y7 Average Signal Output

Q1 Relay 1 N/O Contact Q2
 Relay 1 Common
 Q3 Relay 1 N/C Contact

Q4 Relay 2 N/O Contact Q5
 Relay 2 Common
 Q6 Relay 2 N/C Contact



RELAY 1
 TURN ON POINT
 ADJUSTMENT

RELAY 2
 TURN ON POINT
 ADJUSTMENT

