



Type 8542-1020

The 8542-1020 module can be configured for either -10VDC to +10VDC or -5VDC to +5VDC operation on each channel.

Optical isolation provides 4,000 volts of transient protection for sensitive control electronics from real-world industrial field signals.

Transformer isolation prevents ground loop currents from flowing between field devices and causing noise that produces erroneous reading.

Both channels share a common reference terminal, therefore the dual channels are transformer and optically isolated from other modules but not from each other.

FEATURES

- Two channel per module packaging
- Convenient pluggable wiring terminals
- Powered by a single 5 volt power supply
- 4,000 volt transient isolation
- Out of range indication
- Operating temperature 0° to 70°C



ANALOG VOLTAGE INPUT MODULE

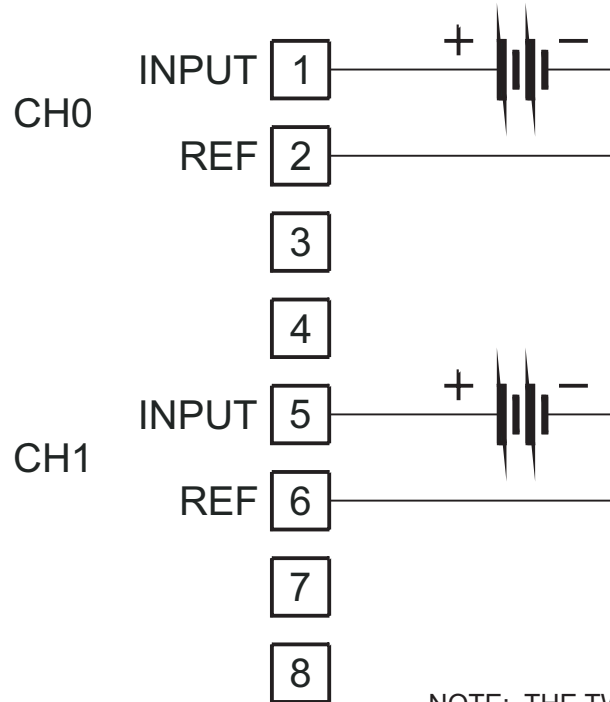
2-CHANNEL -10VDC TO +10VDC SNAP-AIV



PRIME MOVER CONTROLS INC.

SB 8542-1020

FIELD WIRING FOR 8542-1020 ANALOG VOLTAGE INPUT MODULE



SPECIFICATIONS:

- Input range: -10 to +10 VDC or -5 to +5VDC
- Resolution: 0.4mV when configured -10 to +10V
0.2mV when configured -5 to +5V
- Input filtering: -3dB @ 64Hz
- Input response time (% span/DV/Dt):
63.2%/6.7V/10mS
- DC Common mode rejection: >-120dB
- AC Common mode rejection: >-120dB @ 60Hz
- Maximum survivable input: 220VAC or 300VDC
- Maximum operating common mode voltage (field term to logic connector): 500VDC or peak AC
- Accuracy: 0.05%, 5mV@10VDC, 2.5mV@5VDC
- Gain temperature coefficient: 30 PPM/°C
- Offset temperature coefficient: 15 PPM/°C
- Power requirements: 5VDC (±0.15) @ 170mA
- Input resistance - single ended: 1 M (each channel) Both inputs share the same reference point
- Operating temperature: 0°C to 70°C
- Storage temperature -25°C to 85°C
- Vibration: frequency range 2-100 Hz
Velocity amplitude 100mm/sec below 13.2 Hz
Acceleration amplitude 0.7g above 13.2 Hz
- Dimensions:
82.55mm L × 18.29mm W × 90.17mm H
(3.25" L × 0.72" W × 3.55" H)
- Weight 94 g (3.29 oz)



PROD_REF8542_PLC/CIC_BULLTN1020/SB_MNR00.CDR

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