



Type 8502-1043

The 8502-1043 is a versatile signal amplifier and conditioner that can be used to perform a wide variety of signal scaling and conversion functions. The driver amplifier is conveniently packaged in a compact, standard rail mountable enclosure.

FEATURES:

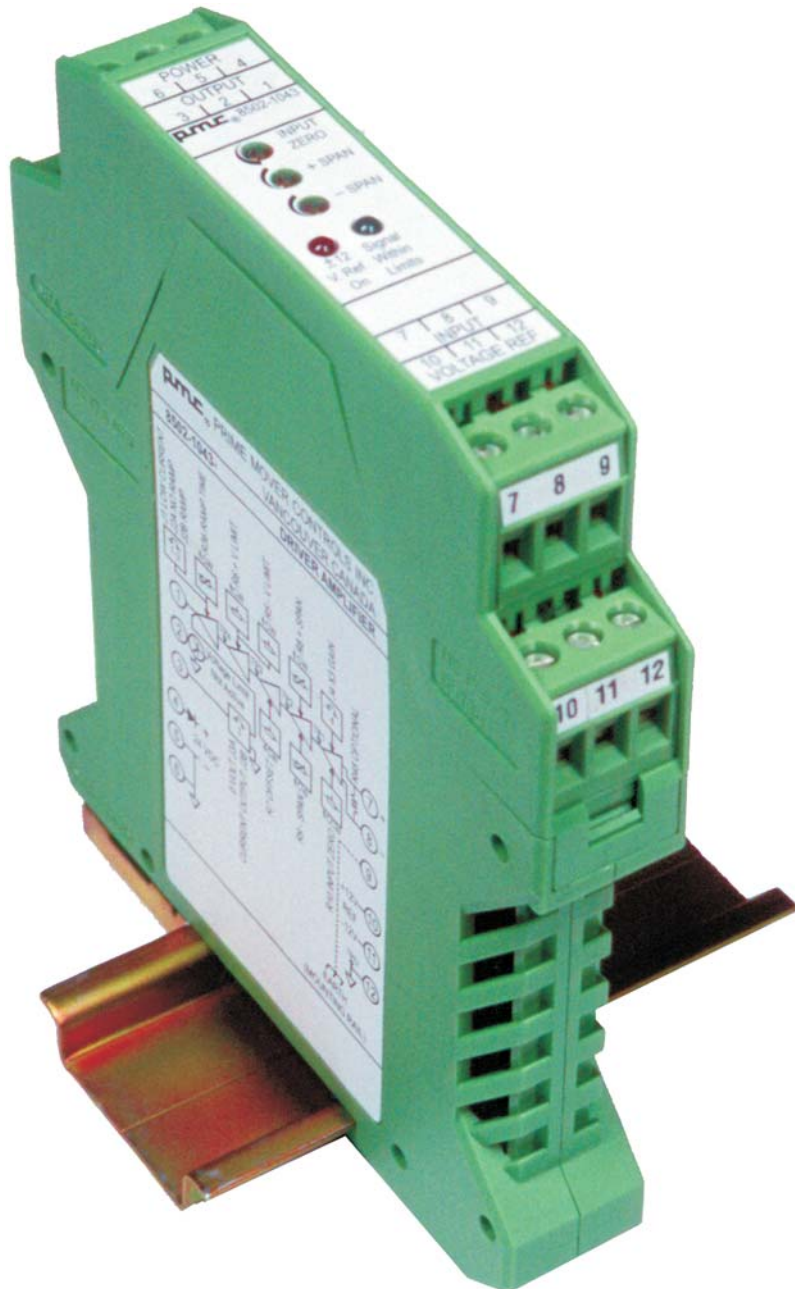
- Integral ± 12 volt reference supplies to power external input potentiometers.
- Accepts standard 0 to 10 V, -10 to 0 to +10 V, 0 to 20 mA, 4 to 20 mA signals as well as many nonstandard signal ranges.
- Provides standard 0 to 10 V and -10 to 0 to +10 V.
- Product rev. 1 provides 0 to 20 mA, 4 to 20 mA, -20 to 0 to +20 mA and 0 to 100 mA signals.
- Separate Input Zero, Positive Span, Negative Span and Output Offset adjustments.
- Adjustable Positive and Negative output signal limiters.
- Open collector signal limit output for out of range / signal failure detection.
- Adjustable ramp function for filtering and smoothing the units output signal. (rev. 1 only)
- Indicators for Voltage Reference On and Signal Within Limits.(rev. 1 only)

APPLICATIONS:

- Propeller pitch indication systems.
- Current to voltage conversion.
- Control signal scaling and limiting.
- Signal failure detection.

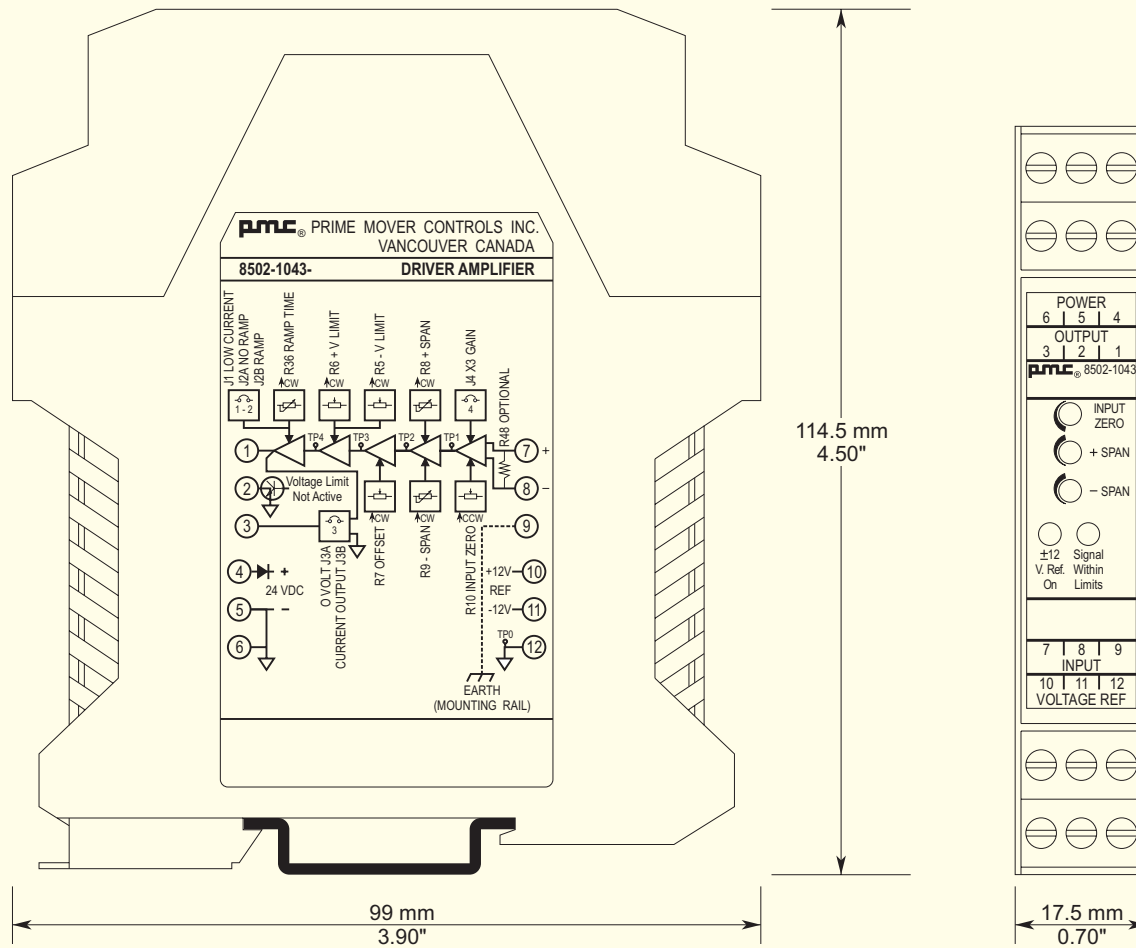
DRIVER AMPLIFIER

RAIL MOUNT



PRIME MOVER CONTROLS INC.

DIMENSIONS FOR 8502-1043 DRIVER AMPLIFIER



SPECIFICATIONS:

Supply:

- Nominal 24 V_{DC}, range 18 to 45 V_{DC}
- Typical 95 mA nominal, 1 A max
- Reverse voltage protection

Voltage Reference Outputs:

- ± 12.0 V_{DC}, 10 mA max
- Short circuit protected

Signal Output:

- 75 mA max continuous output *
- Output voltage range ± 12 V_{DC}
- Short circuit protection

Voltage Limit Output:

- 200 mA, ½ W, 60 V_{DC} open collector
- Deactivated within ± 0.2 V_{DC} of the voltage limit being activated

Ramp Range:

- 0 to 4 V/s ramp

Input Voltage Range:

- ± 12 V_{DC}

Environmental:

- Operating temperature -20 to +70°C
- Storage temperature -40 to +85°C
- Vibration: Frequency range 3 to 100 Hz
Velocity amplitude 100 mm/sec below 22 Hz
Acceleration amplitude 0.7 g above 22 Hz

Physical:

- IP30 Enclosure
- Dimensions: 99 mm L × 17.5 mm W × 114.5 mm H
(3.90" L × 0.70" W × 4.50" H)
- Weight, typical 0.15 kg (0.32 lbs)
- Removable terminal blocks for 14 to 20 AWG

PRIME MOVER CONTROLS INC.

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