

Specifications

Signal Input

Type:

Switch selectable for AC balanced differential input (passive sensors) or TTL compatible pulse input. Direction signal input is TTL compatible for use with bi-directional pickups. A TTL logic (on the direction terminal 3) produces a negative speed indication.

AC Input (sine wave)

Input Impedance = 2K ohms
 Sensitivity @ 1KHz = 200 mVrms
 Max. Voltage Input = 25 Vrms
 CMRR =>40 db @ 1 KHz
 ref. to input amplifier threshold.

Pulse Input (TTL compatible)

Input Impedance = 2K ohms
 Min. pulse width = 10 μ s (30 KHz rng.)
 = 200 μ s (1 KHz rng.)
 Logic 0 = V in <.5V
 Logic 1 = V in >1.5V
 (+12 VDC @ 50 mA supplied for powered sensors)

Frequency Response:

Switch selectable in two (2) ranges.
 1 Hz - 30 KHz or .1 Hz to 1 KHz.

Display Output

Accuracy: $\pm 0.03\%$ typ., $\pm 0.05\%$ maximum (% of reading).

Resolution: Five (5) digit resolution for display values from 1.0000 to 99999. Four (4) digit resolution for display values <1.0000. When fixed decimal is used, fixed position will determine resolution.

Type: .56" red, seven (7) segment LED display with red filtered lens.

Response Time:

For $f_{in} > 2\text{Hz}$ Display Response = .5 sec. + $1/f_{in}$ sec.
 For .1 Hz-2 Hz Display Response = $1/f_{in}$ sec.

Adjustment Range: Input frequencies may be scaled for display by an internally adjustable constant (C). The display indication is C x input frequency. C may be set from 1.000×10^{-7} to 9.999 $\times 10^{+7}$.

Power Supply

120 Vac $\pm 10\%$, 50-60 Hz.
 12 Vdc, +3V, - 2V.
 15 watts maximum.

Environmental

Enclosures:

Panel mount 1/2 DIN case standard. Optional enclosures designed to meet NEMA 4, and NEMA 4X. Hazardous location enclosure meets NFPA/NEC, Class I, Groups B, C, D; Class II, Groups E, F & G, UL standard 886 and CSA standard C22.2 No. 30 1970.

Vibration:

Designed to meet MIL-810C, method 514.2, procedure VII, fig. 514.2-6, curve V (1.5 g's 10-200 Hz).

Shock:

Designed to meet MIL-810C, method 516.2, procedure 1, fig. 516.2-2 for ground equipment (30 g's half-sine).

Temperature:

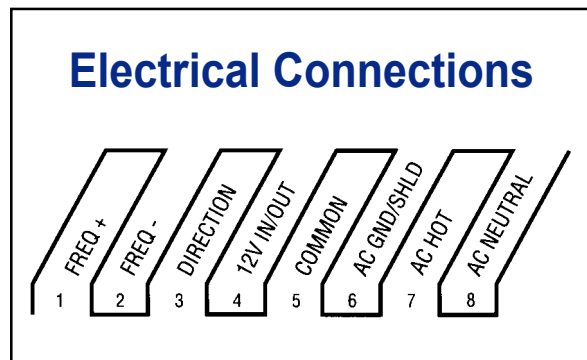
0 to 50°C operating
 -40 to 80°C storage

Humidity:

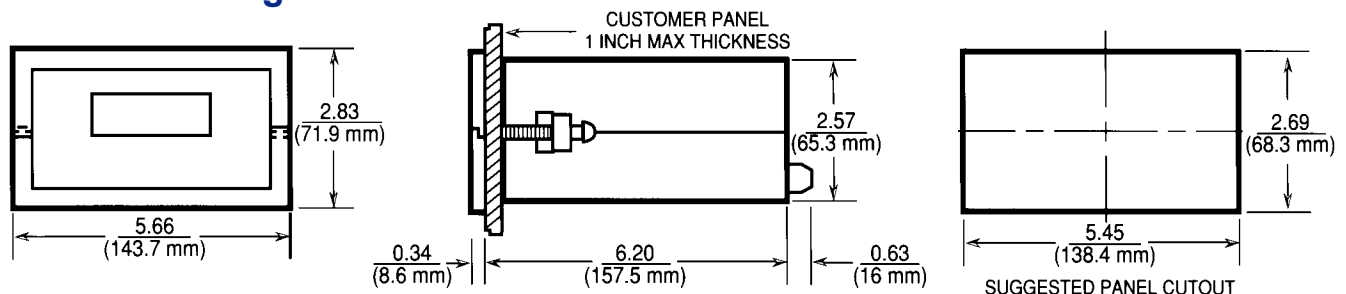
90% relative humidity and non-condensing.

Electrical References:

Circuit common is isolated from AC power, AC ground and case. DC power is referenced to circuit common. Passive (AC) signal inputs are balanced. Active sensors require terminal two (2) connection to terminal five (5). This references the active sensor to circuit common.



Panel Mounting Dimensions



Dimensions in inches and (mm).