

999-10080 Directional Indicator Module

Description

The 999-00080 Directional Indicator converts a voltage input to a visual output. When aligned, any voltage input less than the center voltage will cause the unit to display LED's in the Min direction. Input voltages above the center voltage will display LED's in the Max direction. The center input voltage will display the center LED only. The input voltage is valid for resolution ranges from 2 volts up to 30 volts and may be adjusted to anything in between. A 5-volt (low current) voltage reference is supplied for potentiometric sensors (10K ohm typical).

Wiring

Red --- Power in, 8 to 30 VDC

Black --- Power Com, Return to Power Ground

Black --- Sig COM, Signal Ground (Potentiometer or sensor ground.)

White --- Volt, Voltage Input (Wiper from pot.)

Yellow --- +5 VDC reference voltage (has 1K ohm internal series resistor). Protected from shorts to PWR COM and Power Supply Voltage.

LED Adjustment

1. Set the GAIN Pot 15 turns CCW.
2. Set the input signal to its center value and adjust the OFFSET Pot until only the center LED is on.
3. Set the input signal to its maximum value and adjust GAIN Pot so that the Maximum LED comes on, and the LED below it turns off.
4. Set the input signal to its minimum and adjust the OFFSET Pot so that minimum LED comes on, and the LED above it turns off.
5. Repeat steps 3 and 4 until no further adjustment is required.

Notes:

- Turning the OFFSET pot CW requires a higher VOLT input to turn on the center LED (lower middle).
- Turning the GAIN pot CW requires a larger minimum to maximum VOLT input swing to go from the minimum LED to the maximum LED (upper right).
- The effects of the OFFSET and GAIN pots interact. It is necessary to check both adjustments after either pot is adjusted.
- The range of the OFFSET pot may not be sufficient to achieve center if the GAIN pot is not correctly adjusted.
- If the input is too low or too high and the unit is not adjusted correctly for the input range, all LED's may turn off.

Other Features

*Sealed Enclosure

*Waterproof pots

* Operating Temp, -40C to 75C

*Storage Temp, -40C to 85C

