Plug-in Signal Conditioners M-UNIT

2-WIRE ANGLE SENSOR TRANSMITTER

Functions & Features

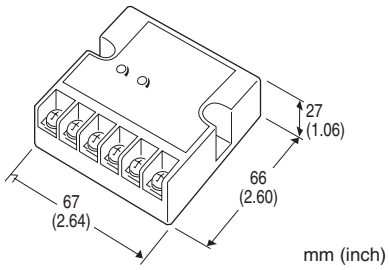
• Converting a voltage input from Angle Sensor (model: NRA) into a standard process signal proportional to the angle

• Compact 2-wire design

Typical Applications

• Tank levels

• Positions



MODEL: PNT-[1]

ORDERING INFORMATION

• Code number: PNT-[1]

Specify a code from below for [1].
(e.g. PNT-1)

[1] ACTION

1: Direct (output increases with input increase)

2: Reverse (output increases with input decrease)

RELATED PRODUCTS

• Brushless angle sensor (model: NRA)

GENERAL SPECIFICATIONS

Construction: Flat box

Connection: M4 screw terminals (torque 1.2 N·m)

Screw terminal: Nickel-plated brass

Housing material: Flame-resistant resin (black)

Zero adjustments: 45 – 55 % of linearity-assured range of the angle sensor

The Zero indicates such input where the transmitter outputs 12 mA.

Span adjustments: 50 – 100 % of linearity-assured range of the angle sensor

INPUT SPECIFICATIONS

Input: 2 – 3 V DC (output from Angle Sensor)

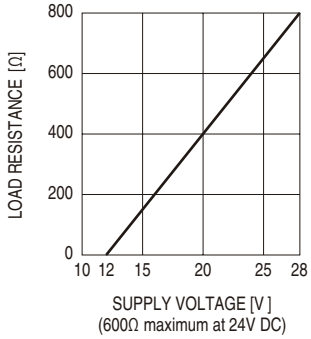
Excitation: 5 V DC ±0.5 %

OUTPUT SPECIFICATIONS

Output: 4 – 20 mA DC

Load resistance vs. supply voltage:

Load Resistance (Ω) = (Supply Voltage (V) – 12 (V)) ÷ 0.02 (A) (including leadwire resistance)



INSTALLATION

Supply voltage: 12 – 28 V DC

Operating temperature: -5 to +60°C (23 to 140°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface

Weight: 100 g (0.22 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.2 %

Temp. coefficient: ±0.02 %/°C (±0.01 %/°F)

Response time: ≤ 0.5 sec. (0 – 90 %)

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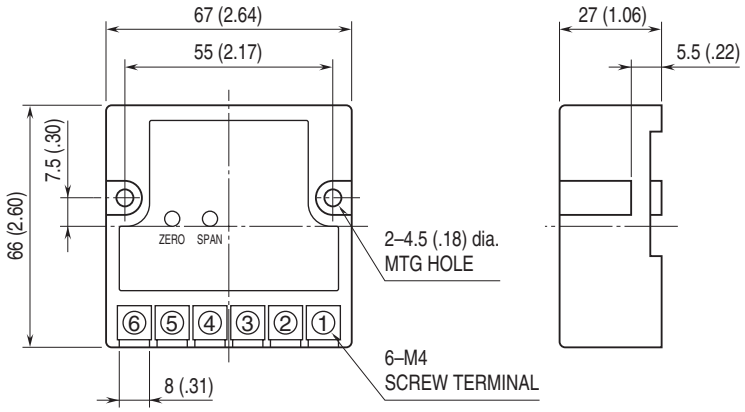
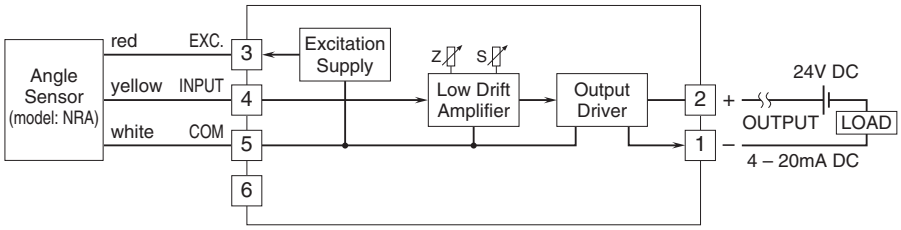
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



•When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.

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