Plug-in Signal Conditioners M-UNIT

2-WIRE POTENTIOMETER TRANSMITTER

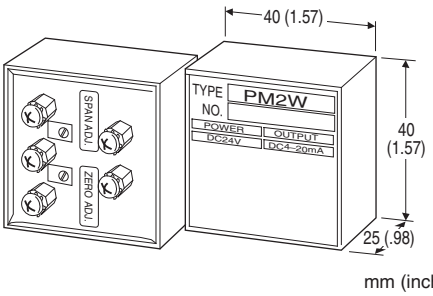
(molded)

Functions & Features

• Providing a 4 – 20 mA DC signal proportional to a potentiometer or slidewire position input
• Constant voltage excitation allows use with pots with total resistances from 100 Ω – 2 kΩ without affecting accuracy
• Small, molded unit is suitable for being incorporated into another device

Typical Applications

• Tank levels
• Positions



MODEL: PM2W

ORDERING INFORMATION

• Code number: PM2W

RELATED PRODUCTS

• Current loop supply (model: YVD)
• Mounting Frame (model: PM2W-FR)

GENERAL SPECIFICATIONS

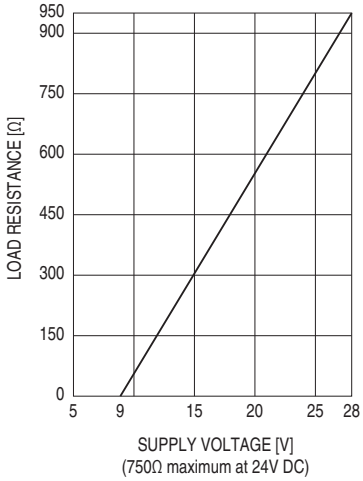
Construction: Molded
Connection: M3 screw terminals (torque 0.5 N·m)
Screw terminal: Nickel-plated brass
Housing material: Flame-resistant resin (black)
Zero adjustment: 0 to 10 % of total resistance
Span adjustment: (of total resistance)
135 Ω or above: 50 – 100 %
Below 135 Ω: 70 – 100 %

INPUT SPECIFICATIONS

Potentiometer: 100 Ω – 2 kΩ
Minimum span: 50 % of total resistance (≥ 135 Ω); 70 % of total resistance (< 135 Ω)
Excitation: 0.2 V DC

OUTPUT SPECIFICATIONS

Output range: 4 – 20 mA DC
Load resistance vs. supply voltage:
Load Resistance (Ω) = (Supply Voltage (V) – 9 (V)) ÷ 0.02 (A)
(including leadwire resistance)



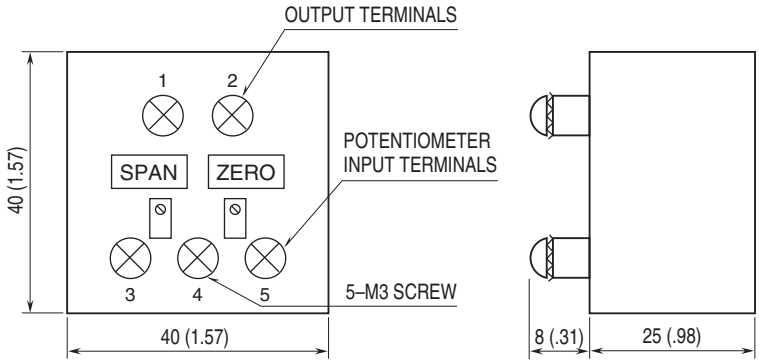
INSTALLATION

Supply voltage: 9 – 28 V DC
Operating temperature: -5 to +60°C (23 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface with the Mounting Frame (model: PM2W-FR)
Weight: 90 g (0.2 lb)

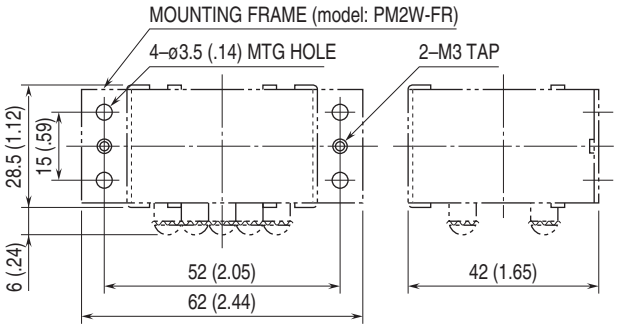
PERFORMANCE in percentage of span

Accuracy: ±0.2 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 0.1 sec. (0 – 90 %)
Dielectric strength: 2000 V AC @1 minute (input or output to ground)

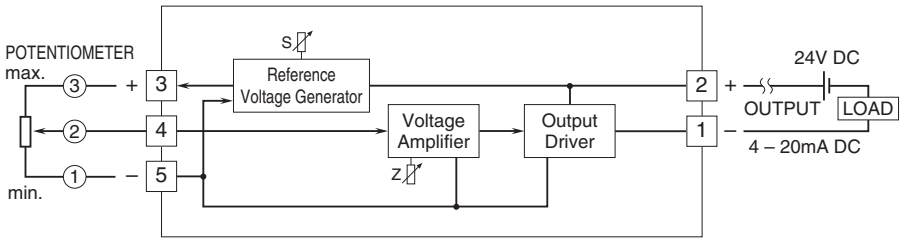
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.