Super-mini Two-wire Signal Conditioners T-UNIT

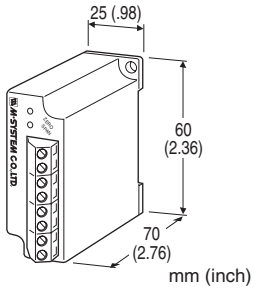
POTENTIOMETER TRANSMITTER

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
• Minimal interaction between zero and span adjustments
• Monitor terminals
• High-density mounting

Typical Applications

• Tank levels
• Positions



MODEL:TM

ORDERING INFORMATION

• Code number: TM

GENERAL SPECIFICATIONS

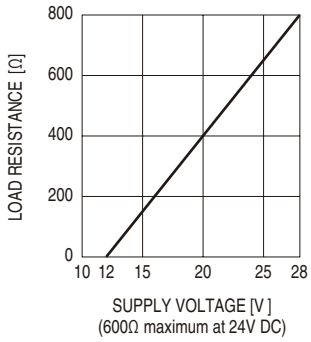
Construction: Stand-alone; terminal access at the front
Connection: Euro terminal
Housing material: Flame-resistant resin (black)
Zero adjustment: 0 – 10 % (front)
Span adjustment (front):
50 – 100 % (of total resistance): 135 Ω or above
70 – 100 % (of total resistance): Below 135 Ω

INPUT SPECIFICATIONS

Potentiometer: 100 Ω – 2 kΩ
Minimum span: 50 % of total resistance (≥ 135 Ω); ≥ 70 % of total resistance (< 135 Ω)
Excitation: 0.5 V DC

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)



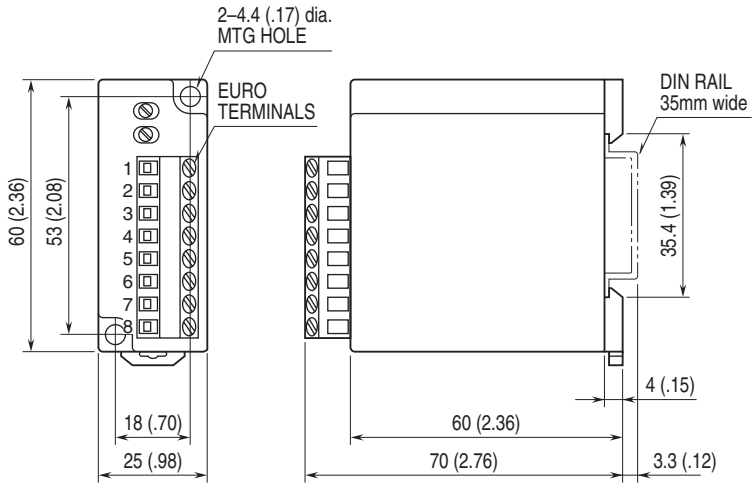
INSTALLATION

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 or DIN rail
Weight: 120 g (0.26 lbs)

PERFORMANCE in percentage of span

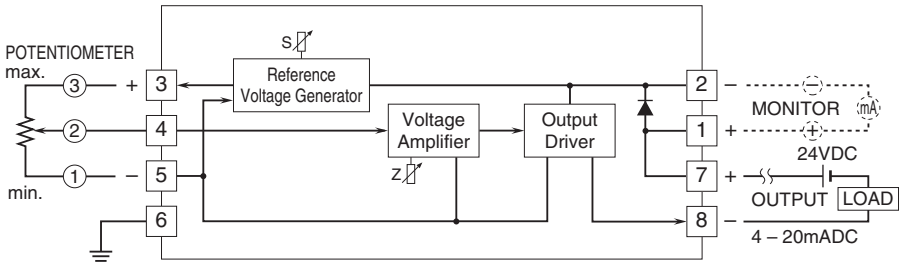
Accuracy: ±0.2 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 0.5 sec. (0 – 90 %)

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.