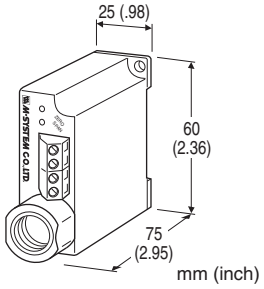
Super-mini Two-wire Signal Conditioners T-UNIT

P/I TRANSDUCER

Functions & Features

- Converting a standard pneumatic signal into a proportional 4 – 20 mA DC output
- Monitor terminals
- High-density mounting



MODEL: TPV[1]

ORDERING INFORMATION

- Code number: TPV[1]

Specify a code from below for [1].
(e.g. TPV/A2S/P7)

[1] OPTIONS (multiple selections)

Input

blank: 0.2 – 1.0 kgf/cm^2
/A1S: 19.6 – 98.1 kPa
/A2S: 20 – 100 kPa
/A3S: 20.7 – 103.4 kPa
/A2: 0.2 – 1.0 bar
/A3: 3 – 15 psig

Pneumatic Connection

blank: Rc 1/4"
/P7: 1/4" NPT fitting

GENERAL SPECIFICATIONS

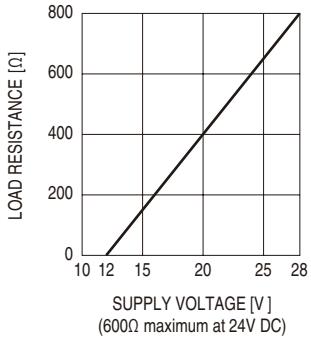
Construction: Stand-alone; terminal access at the front
Connection
Output: Euro type terminal
(applicable wire size: 0.25 to 1.5 mm^2, stripped length 7 mm)
Pneumatic: Rc 1/4" or 1/4" NPT female
(torque ≤ 12 N·m)
Grounding: M4 screw terminal (torque: 1.2 N·m)
Screw terminal
• **Grounding**: Nickel-plated brass
Housing material: Diecast aluminum
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

■ **Input**
19.6 – 98.1 kPa, 0.2 – 1.0 kgf/cm^2
20 – 100 kPa, 0.2 – 1.0 bar
20.7 – 103.4 kPa, 3 – 15 psig

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)



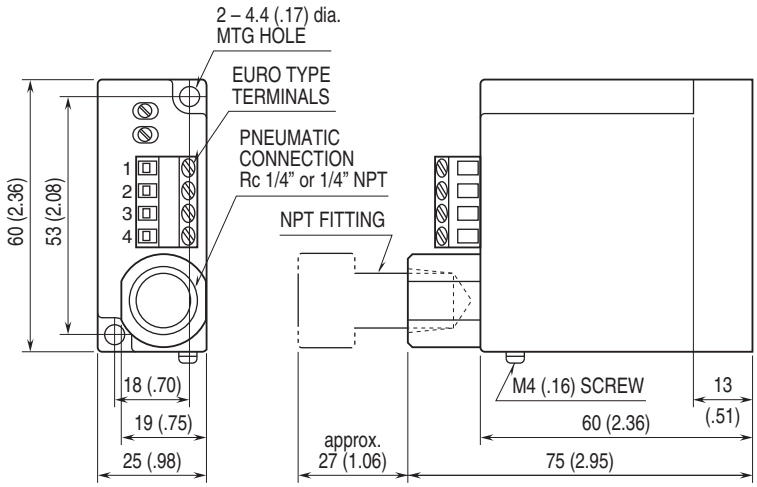
INSTALLATION

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: 150 g (0.33 lb)

PERFORMANCE in percentage of span

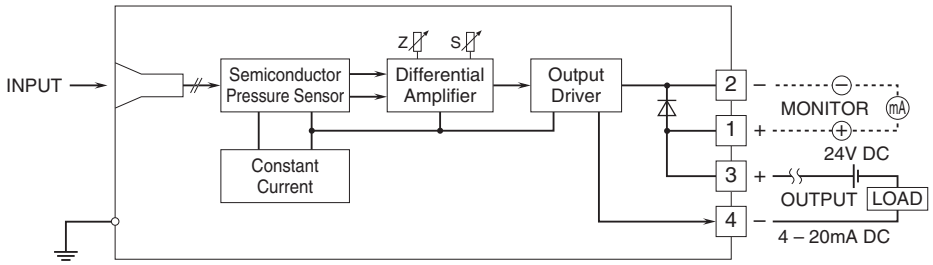
Accuracy: ±0.3 %
Temp. coefficient: ±0.03 %/°C (±0.02 %/°F)
Response time: ≤ 0.5 sec. (0 – 90 %)
Permissible overrange: 196 kPa (2.0 kgf/cm^2, 1.96 bar, 28 psig)

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.