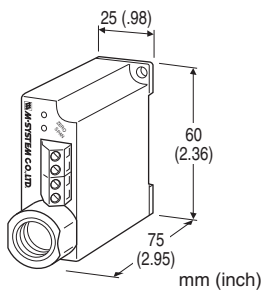


Super-mini Two-wire Signal Conditioners T-UNIT

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/D)

[1] OPTIONS (multiple selections)

Input

blank: 0.2 - 1.0 kgf/cm²

/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

Mounting

blank: Surface mount type

/D: DIN rail type

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front

Connection

Output: Euro type terminal

(applicable wire size: 0.25 to 1.5 mm², 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/cm²

20 - 100 kPa, 0.2 - 1.0 bar

20.7 - 103.4 kPa, 3 - 15 psig

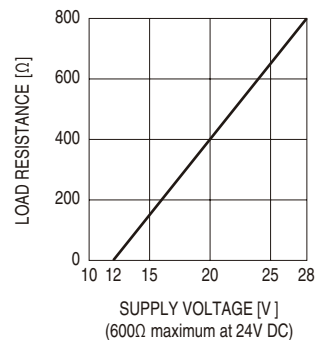
OUTPUT SPECIFICATIONS

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 or DIN rail

Weight: 150 g (0.33 lb), surface mount type

195 g (0.43 lb), DIN rail type

PERFORMANCE in percentage of span

Accuracy: ±0.3 %

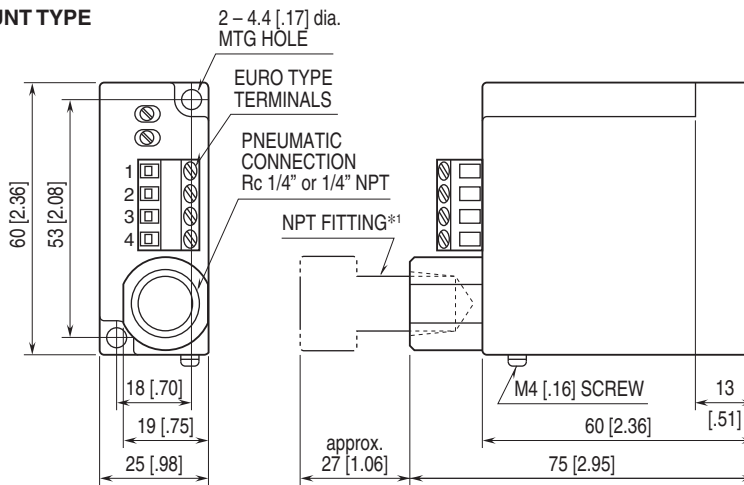
Temp. coefficient: ±0.03 %/°C (±0.02 %/°F)

Response time: ≤ 0.5 sec. (0 - 90 %)

Permissible overrange: 196 kPa (2.0 kgf/cm², 1.96 bar, 28 psig)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

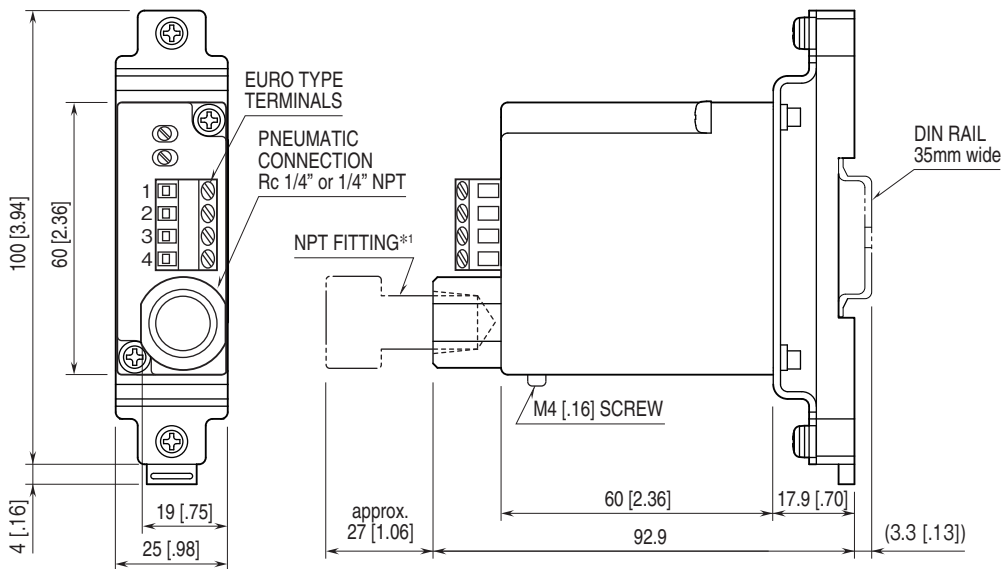
■ SURFACE MOUNT TYPE



*Fitting provided for 1/4" NPT connection.

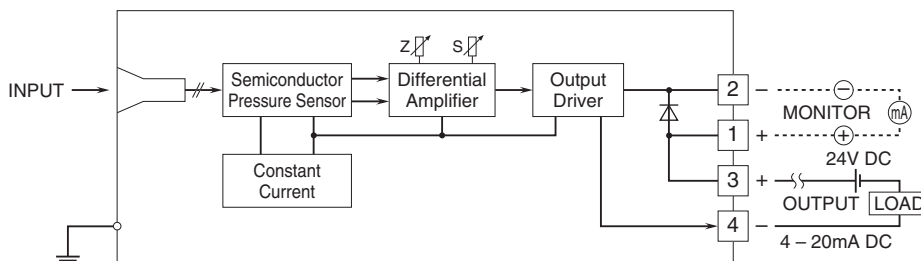
•When mounting, no extra space is needed between units.

■ DIN RAIL TYPE



*Fitting provided for 1/4" NPT connection.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.