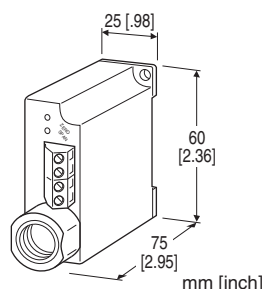


## Super-mini Two-wire Signal Conditioners T-UNIT

## P/I TRANSDUCER

## Functions &amp; 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/cm<sup>2</sup>

**/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 mm<sup>2</sup>, 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<sup>2</sup>

20 – 100 kPa, 0.2 – 1.0 bar

20.7 – 103.4 kPa, 3 – 15 psig

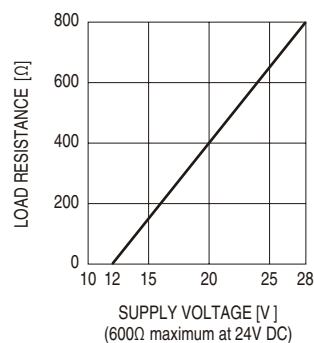
## OUTPUT SPECIFICATIONS

**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 %

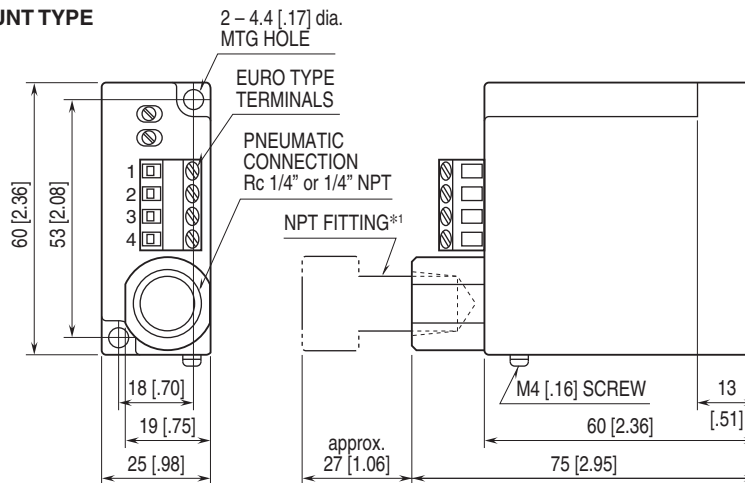
**Temp. coefficient:** ±0.03 %/°C (±0.02 %/°F)

**Response time:** ≤ 0.5 sec. (0 – 90 %)

**Permissible overrange:** 196 kPa (2.0 kgf/cm<sup>2</sup>, 1.96 bar, 28 psig)

## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

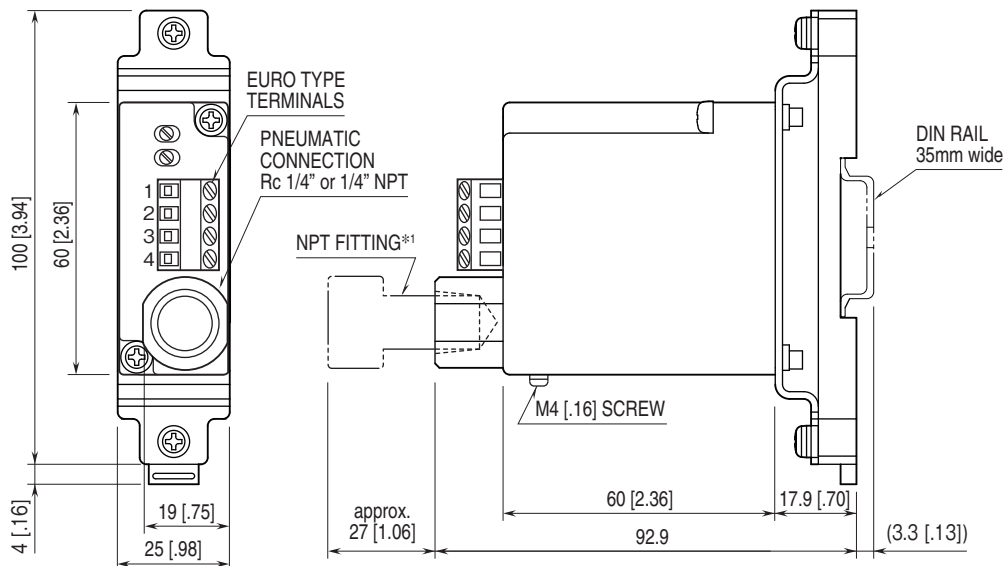
### ■ SURFACE MOUNT TYPE



\*1. Fitting provided for 1/4" NPT connection.

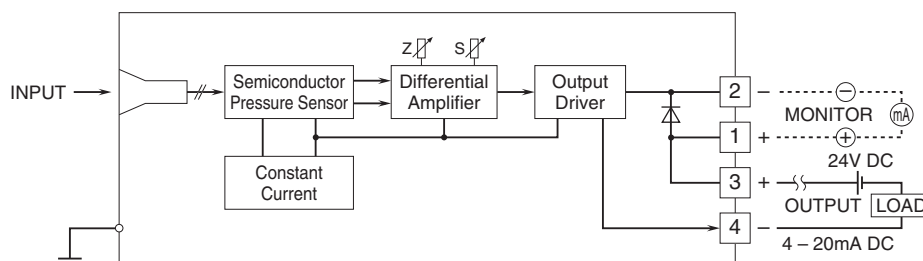
•When mounting, no extra space is needed between units.

### ■ DIN RAIL TYPE



\*1. Fitting provided for 1/4" NPT connection.

## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.