

Super-mini Two-wire Signal Conditioners T-UNIT

Span adjustment: 95 to 105 % (front)

SIGNAL TRANSMITTER

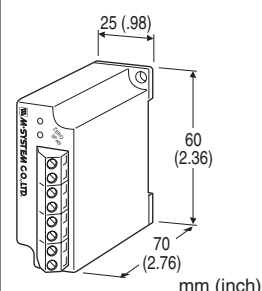
(isolated)

Functions & Features

- Converting a DC input into an isolated 4 – 20 mA DC signal
- Monitor terminals
- High-density mounting

Typical Applications

- mV, voltage and current scaling

**MODEL: TVS-[1]****ORDERING INFORMATION**

- Code number: TVS-[1]
- Specify a code from below for [1].
(e.g. TVS-6)
- Special input range (For code 0)

[1] INPUT**Voltage**

- 1: 0 – 10 mV DC (Input resistance 10 kΩ min.)
 - 2: 0 – 100 mV DC (Input resistance 100 kΩ min.)
 - 3: 0 – 1 V DC (Input resistance 1 MΩ min.)
 - 4: 0 – 10 V DC (Input resistance 1 MΩ min.)
 - 5: 0 – 5 V DC (Input resistance 1 MΩ min.)
 - 6: 1 – 5 V DC (Input resistance 1 MΩ min.)
- 0: Specify voltage (0 % or 50 % input must be equal to 0 V.)

GENERAL SPECIFICATIONS**Construction:** Stand-alone; terminal access at the front**Connection:** Euro type terminal(applicable wire size: 0.25 to 1.5 mm², stripped length 7 mm)**Housing material:** Flame-resistant resin (black)**Isolation:** Input to output**Zero adjustment:** -5 to +5 % (front)**INPUT SPECIFICATIONS****Input:** -300 – +300 V DC**Minimum span:** 10 mV**Input resistance**

(Input Span: Input Resistance)

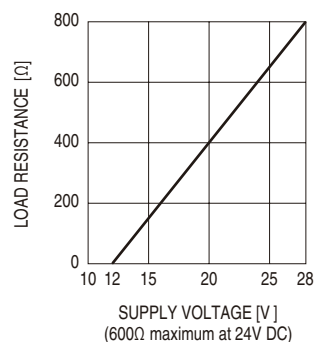
10 – 100 mV: ≥ 10 kΩ

0.1 – 1 V: ≥ 100 kΩ

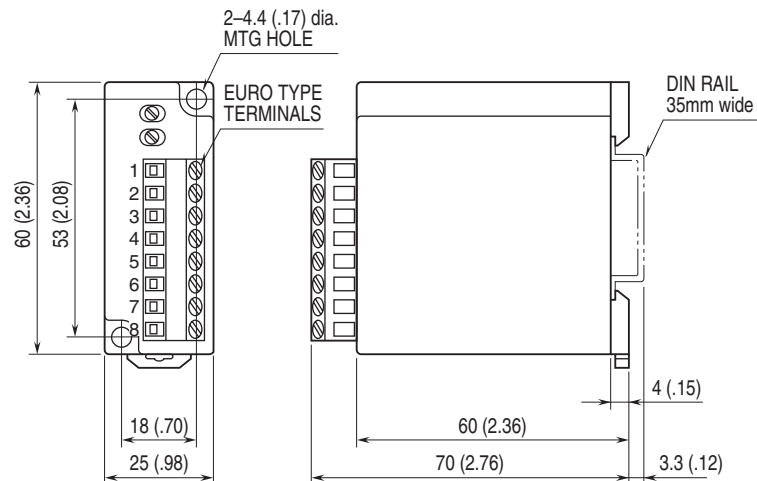
≥ 1 V: ≥ 1 MΩ

OUTPUT SPECIFICATIONS**Output:** 4 – 20 mA DC**Load resistance vs. supply voltage:**

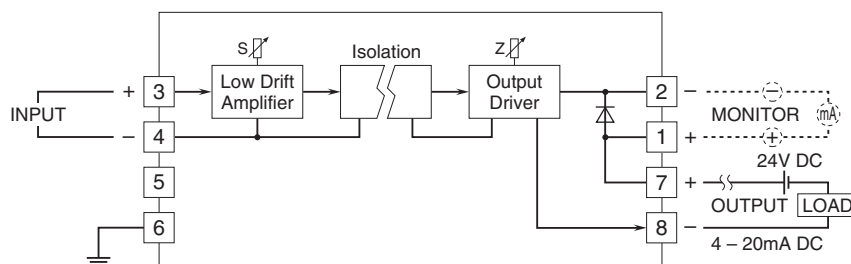
Load Resistance (Ω) = (Supply Voltage (V) – 12 (V)) ÷ 0.02
(A) (including leadwire resistance)

**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 lb)**PERFORMANCE in percentage of span****Accuracy:** ±0.1 %**Temp. coefficient:** ±0.015 %/°C (±0.008 %/°F)**Response time:** ≤ 0.5 sec. (0 – 90 %)**Insulation resistance:** ≥ 100 MΩ with 500 V DC**Dielectric strength:** 500 V AC @ 1 minute (input to output)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.