Tension-Clamp Ultra-Slim Signal Conditioners M6S Series

SIGNAL TRANSMITTER

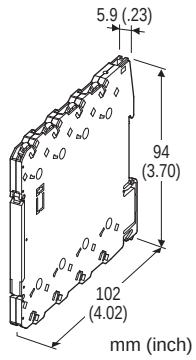
(high-accuracy, ultra-high speed response 30 µsec.)

Functions & Features

- Maintenance-free tension clamp connection
- 5.9-mm wide ultra-slim design
- Low profile allows the M6S module mounted in a 120-mm deep panel
- Galvanically isolates process instrumentation signals
- 30-microsecond response
- Frequency characteristics 12 kHz (-3 dB)
- High-density mounting
- Power indicator LED

Typical Applications

- Isolation for a vibration analyzing system
- Isolation for Discharge/Charge tester



MODEL: M6SVF–[1]4W–R

ORDERING INFORMATION

- Code number: M6SVF-[1]4W-R
  Specify a code from below for [1].
  (e.g. M6SVF-04W-R)
- Special input range (For codes 0: e.g. -164 – +164 mV DC)

[1] INPUT

Voltage

2W : -100 – +100 mV DC (Input resistance 1 MΩ min.)
4W: -10 – +10 V DC (Input resistance 1 MΩ min.)
5W: -5 – +5 V DC (Input resistance 1 MΩ min.)
8W: -20 – +20 V DC (Input resistance 1 MΩ min.)
0 : Specify voltage
(Select input range as indicated below. Input resistance 1 MΩ min.)
-20 – +20 mV DC
-24 – +24 mV DC
-40 – +40 mV DC
-85 – +85 mV DC
-164 – +164 mV DC
-200 – +200 mV DC
-15 – +15 V DC
-25 – +25 V DC
-55 – +55 V DC
-60 – +60 V DC

OUTPUT

Voltage

4W: -10 – +10 V DC (Load resistance 2000 Ω min.)

POWER INPUT

DC Power

R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

GENERAL SPECIFICATIONS

Connection
Input and output: Tension clamp
Power input: Via the Installation Base (model: M6SBS) or Tension clamp
Applicable wire size: 0.2 to 2.5 mm^2, stripped length 8 mm
Housing material: Flame-resistant resin (black)
Isolation: Input to output to power
Overrange input: -5 to +105%
Zero adjustment: -1 to +1 % (front))
Span adjustment: 99 to 101 % (front)
Power LED: Green light turns on when the power is supplied.

INPUT SPECIFICATIONS

Input resistance: 1 MΩ min. (3 kΩ min. at power loss)

OUTPUT SPECIFICATIONS

Parallel load capacitance: Max. 2000 pF

INSTALLATION

Power consumption: Approx. 0.6 W
Operating temperature: -20 to +55°C (-4 to +131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Installation Base (model: M6SBS) or DIN rail
Weight: 60 g (2.1 oz)

PERFORMANCE in percentage of span

Accuracy: ±0.01 %
Temp. coefficient: ±0.005 %/°C (±0.003 %/°F)
Frequency characteristics: 12 kHz, -3 dB
Response time: ≤ 30 µsec. (0 – 90 %)
Line voltage effect: ±0.01 % over voltage range

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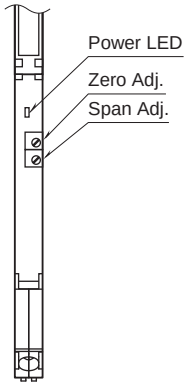
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)

STANDARDS & APPROVALS

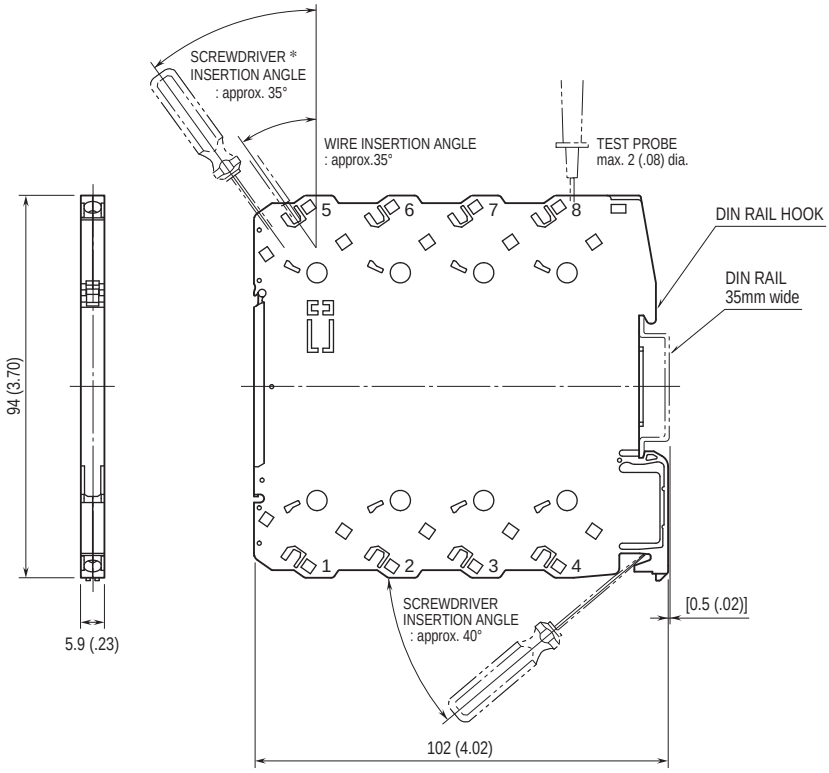
CE conformity:
EMC Directive (2004/108/EC)
EN 61000-6-4 (EMI)
EN 61000-6-2 (EMS)

EXTERNAL VIEW

(With the cover open)



DIMENSIONS unit: mm (inch)



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

*Use a minus screwdriver: tip width 3.8 mm max., tip thickness 0.5 to 0.6 mm

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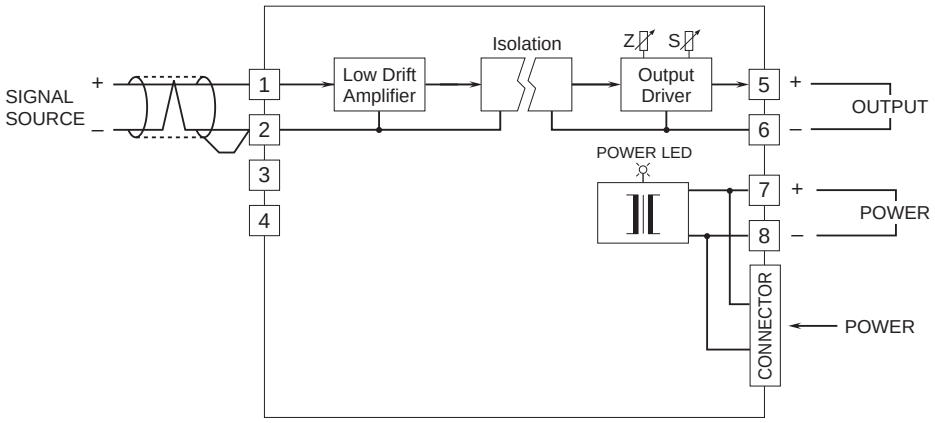
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



This unit, by its fast-response feature, is not designed to eliminate noise present in the input signal.
Use a shielded twisted-pair cable to prevent noise from entering through the input wiring.

⚠ Specifications are subject to change without notice.

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