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


ORDERING INFORMATION
• Code number:  M6SVF-[1]4W-R[2]
Specify a code from below for each [1] and [2].
(e.g. M6SVF-04W-R/Q)
• Special input range (For code 0: e.g. -164 – +164 mV DC)
• Specify the specification for option code /Q
  (e.g. /C01)

[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

MODEL: M6SVF SPECIFICATIONS

ES-7994 Rev.4 Page 1/3
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
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute (input to output
to power to ground)

STANDARDS & APPROVALS
EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive
EN 50581

EXTERNAL VIEW
(With the cover open)
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

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

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.