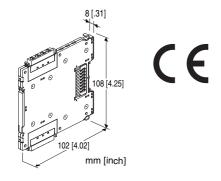
Base-free Interconnecting Ultra-Slim Signal Conditioners M60S Series

SIGNAL TRANSMITTER

(field-configurable)

Functions & Features

- Converts DC input from a sensor into a standard process signal
- Output range and response time selectable with DIP SW
- Power connector for interconnecting modules and collectively supplying power
- Spring clamp terminal connection for easy wiring
- 6-mm wide ultra-slim design
- Low profile allows mounting in a 120-mm deep panel
- · High-density mounting
- Power indicator LED



MODEL: M60SVS-R[1]

ORDERING INFORMATION

Code number: M60SVS-R[1]
Specify a code from below for [1].
(e.g. M60SVS-R/Q)

 Specify the specification for option code /Q (e.g. /C01)

Default at shipment
Input range: 4 - 20 mA DC
Output range: 4 - 20 mA DC
Response time: Standard response

INPUT - Field-selectable

Current

4 – 20 mA DC (Input resistance 50 Ω)

0 - 20 mA DC (Input resistance 50 Ω)

Voltage

0 - 10 V DC (Input resistance 200 k Ω min.)

2 - 10 V DC (Input resistance 200 kΩ min.)

 $0 - 5 \text{ V DC (Input resistance } 100 \text{ k}\Omega \text{ min.)}$

1 – 5 V DC (Input resistance 100 k Ω min.)

OUTPUT - Field-selectable

Current

4 – 20 mA DC (Load resistance 550 Ω max.)

0 - 20 mA DC (Load resistance 550 Ω max.)

Voltage

 $0 - 10 \text{ V DC (Load resistance } 10 \text{ k}\Omega \text{ min.)}$

2 - 10 V DC (Load resistance 10 k Ω min.)

 $0 - 5 \text{ V DC (Load resistance } 5000 \Omega \text{ min.)}$

1 – 5 V DC (Load resistance 5000 Ω min.)

POWER INPUT

DC Power

R: 24 V DC

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

[1] OPTIONS

blank: none

/Q: Options other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating

GENERAL SPECIFICATIONS

Connection

Input and output: Spring clamp terminal

Power input: Via the power connector or the spring clamp

terminal

Applicable wire size: 0.2 to 1.5 mm², stripped length 8 mm

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power **Zero adjustment**: -2 to +2 % (front) **Span adjustment**: 98 to 102 % (front)

Power indicator LED: Green LED turns on when the power is

supplied.

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

INSTALLATION

Power consumption: Max. 0.6 W

Power input: Max. 3 A (Total current consumed by the interconnected signal conditionerse must be 3 A or less.) Operating temperature: -20 to $+55^{\circ}$ C (-4 to $+131^{\circ}$ F) Operating humidity: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust

Mounting: DIN rail Weight: 65 g (2.3 oz)



MODEL: M60SVS

PERFORMANCE in percentage of span

Accuracy: ±0.1 %

I/O setting accuracy: ±0.2 %

Temp. coefficient: ± 0.01 %/°C (± 0.006 %/°F) Response time (0 - 90 %): selectable with DIP SW

Standard: ≤ 500 msec.

Fast: ≤ 5 msec.

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 1500 V AC @1 minute (input to output

to power to ground)

STANDARDS & APPROVALS

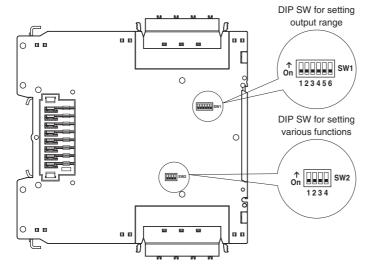
EU conformity: EMC Directive EMI EN 61000-6-4

EMS EN 61000-6-2 RoHS Directive

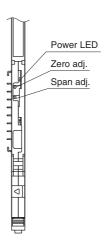
EXTERNAL VIEW

Refer to the instruction manual for the setting procedure.

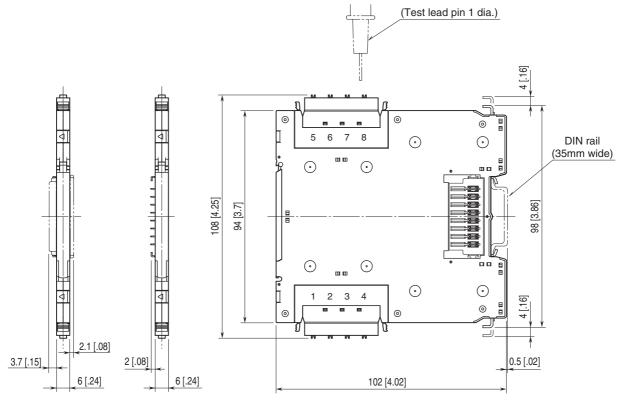
■ LEFT SIDE VIEW



■ FRONT VIEW (with the front cover removed)



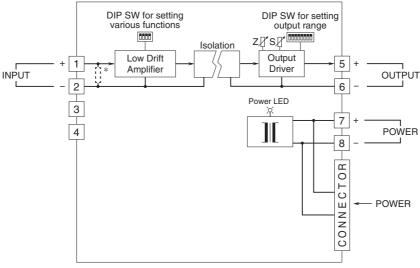
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



• With the end cover attached

• Capable of High-density mounting

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



^{*} Input shunt resistor incorporated for current input.



Specifications are subject to change without notice.

