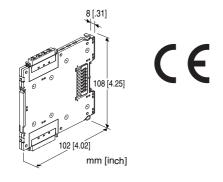
Base-free Interconnecting Ultra-Slim Signal Conditioners M60S Series

SIGNAL TRANSMITTER

(field-configurable, two isolated outputs)

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: M60SWVS-R[1]

ORDERING INFORMATION

Code number: M60SWVS-R[1]
 Specify a code from below for [1].
 (e.g. M60SWVS-R/Q)

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

Default at shipment
 Input range: 4 - 20 mA DC
 Output 1 range: 4 - 20 mA DC
 Output 2 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

 $0 - 10 \text{ V DC (Input resistance 200 k}\Omega \text{ min.)}$

2 – 10 V DC (Input resistance 200 k Ω 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 1 - Field-selectable

Current

4 – 20 mA DC (Load resistance 300 Ω max.)

0 - 20 mA DC (Load resistance 300 Ω max.)

Voltage

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

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

OUTPUT 2 - Field-selectable

Current

4 – 20 mA DC (Load resistance 300 Ω max.)

0 - 20 mA DC (Load resistance 300 Ω max.)

Voltage

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

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 1 to output 2 to power

Zero adjustment: -2 to +2 % (front) Span adjustment: 98 to 102 % (front)

Adjustable individually for each output 1 and output 2. **Power indicator LED**: Green LED turns on when the power is

supplied.

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated



MODEL: M60SWVS

INSTALLATION

Power consumption: 0.7 W max.

Power input: 3 A (Total current consumed by the interconnected signal conditioners must be 3 A or less.)

Operating temperature: -20 to +55°C (-4 to +131°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)

PERFORMANCE in percentage of span

Accuracy: ±0.1 %

I/O setting accuracy: ±0.2 %

Temp. coefficient: $\pm 0.01 \%/^{\circ}C (\pm 0.006 \%/^{\circ}F)$ Response time (0 - 90 %): selectable with DIP SW

Standard: \leq 500 msec. Fast: \leq 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 1 to output 2 to power to ground)

STANDARDS & APPROVALS

EU conformity:

EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

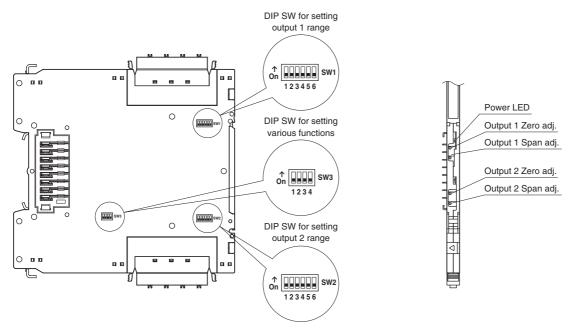
RoHS Directive

EXTERNAL VIEW

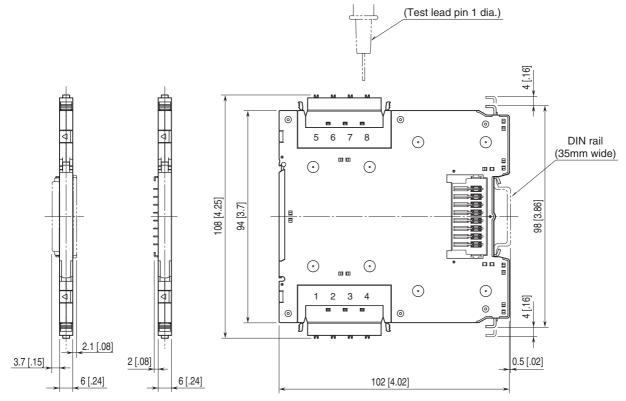
Refer to the instruction manual for the setting procedure.

■ LEFT SIDE VIEW

■ FRONT VIEW (with the front cover removed)



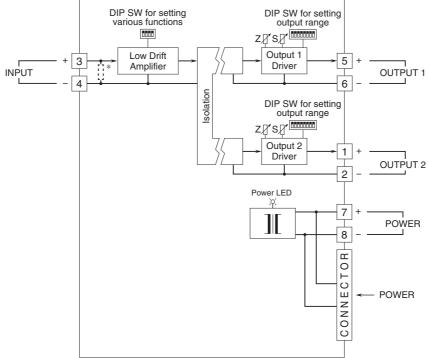
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



• With the end cover attached

• Capable of High-density mounting

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Input shunt resistor incorporated for current input.



MODEL: M60SWVS

 Λ

Specifications are subject to change without notice.