

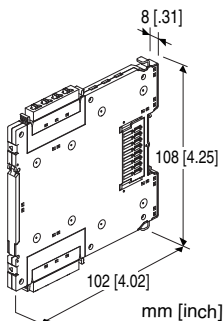
Base-free Interconnecting Ultra-Slim Signal Conditioners M60S Series

## 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  $\Omega$ )

0 - 20 mA DC (Input resistance 50  $\Omega$ )

Voltage

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

2 - 10 V DC (Input resistance 200 k $\Omega$  min.)

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

1 - 5 V DC (Input resistance 100 k $\Omega$  min.)

### OUTPUT - Field-selectable

Current

4 - 20 mA DC (Load resistance 550  $\Omega$  max.)

0 - 20 mA DC (Load resistance 550  $\Omega$  max.)

Voltage

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

2 - 10 V DC (Load resistance 10 k $\Omega$  min.)

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

1 - 5 V DC (Load resistance 5000  $\Omega$  min.)

### POWER INPUT

DC Power

R: 24 V DC

(Operational voltage range 24 V  $\pm$ 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 our 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 mm<sup>2</sup>, 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 conditioner 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:  $\pm 0.1\%$

I/O setting accuracy:  $\pm 0.2\%$

Temp. coefficient:  $\pm 0.01\%/^{\circ}\text{C}$  ( $\pm 0.006\%/^{\circ}\text{F}$ )

Response time (0 - 90 %): selectable with DIP SW

Standard:  $\leq 500$  msec.

Fast:  $\leq 5$  msec.

Line voltage effect:  $\pm 0.1\%$  over voltage range

Insulation resistance:  $\geq 100\ \text{M}\Omega$  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

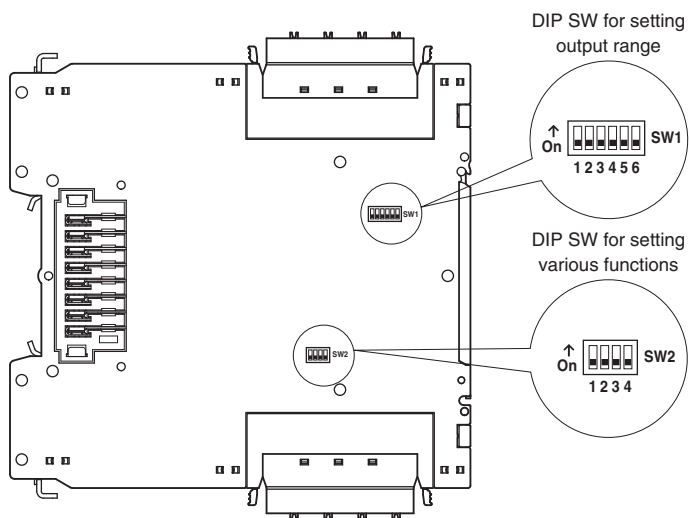
EMS EN 61000-6-2

RoHS Directive

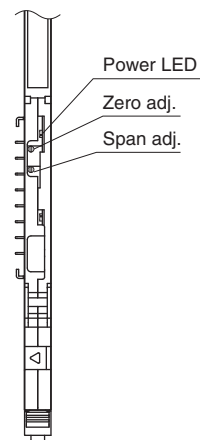
## EXTERNAL VIEW

Refer to the instruction manual for the setting procedure.

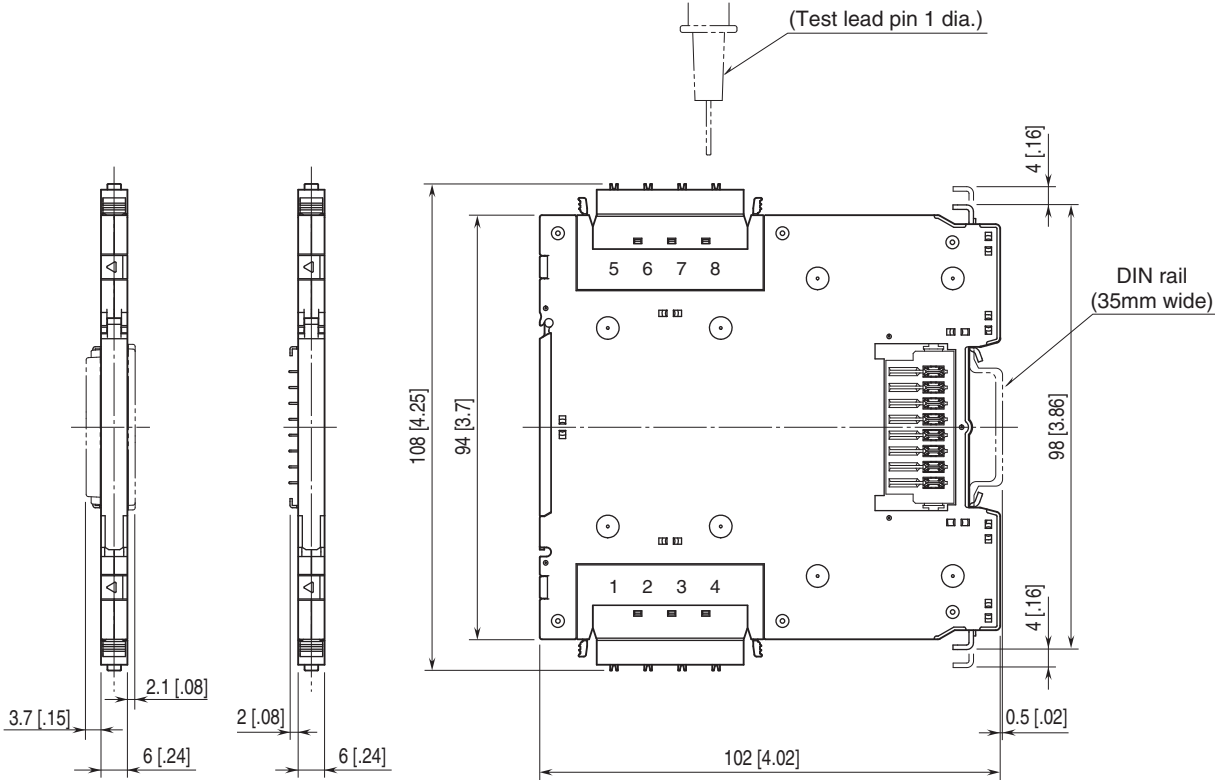
### LEFT SIDE VIEW



### FRONT VIEW (with the front cover removed)



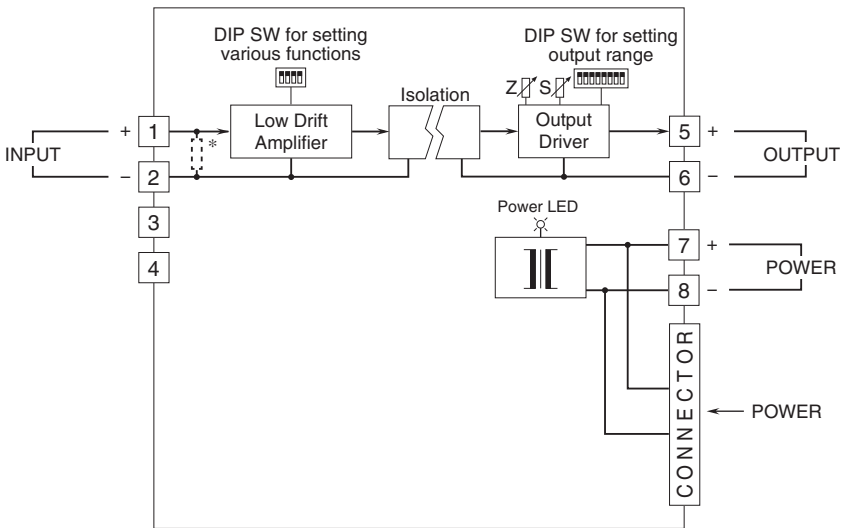
## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



• 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.