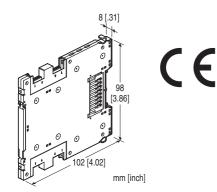
Base-free Interconnecting Ultra-Slim Signal Conditioners M60E Series

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
- e-CON connector 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: M60EVS-R[1]

ORDERING INFORMATION

- Code number: M60EVS-R[1] Specify a code from below for [1]. (e.g. M60EVS-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 $k\Omega$ min.)
- 2 10 V DC (Input resistance 200 k Ω min.)
- 0 5 V DC (Input resistance 100 $k\Omega$ 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 V DC (Load resistance 10 $k\Omega$ min.)
- 2 10 V DC (Load resistance 10 k Ω min.)
- 0 5 V DC (Load resistance 5000 Ω 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: 4-pin e-CON connector Power input: Via the power connector or the 4-pin e-CON connector PWB connector (M-System's product) Reccomended cable connector: XN2A-1470 (omron) Applicable wire size: 0.08mm² (AWG28) to 0.5mm² (AWG20) Outer sheath diameter: max. 1.5 dia (The cable connector is not included in the package. Refer to the specifications of the product.) 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°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: $\pm 0.01 \%/^{\circ}C (\pm 0.006 \%/^{\circ}F)$ Response time (0 - 90 %): selectable with DIP SW Standard: ≤ 500 msec. Fast: ≤ 5 msec. Line voltage effect: $\pm 0.1 \%$ over voltage range Insulation resistance: $\geq 100 M\Omega$ with 500 V DC Dielectric strength: 1500 V AC @1 minute (input to output to power to ground)

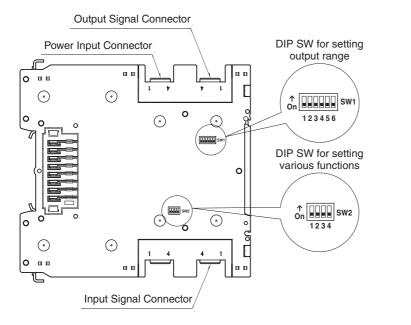
STANDARDS & APPROVALS

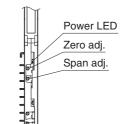
EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive

EXTERNAL VIEW

Refer to the instruction manual for the setting procedure.

■ LEFT SIDE VIEW



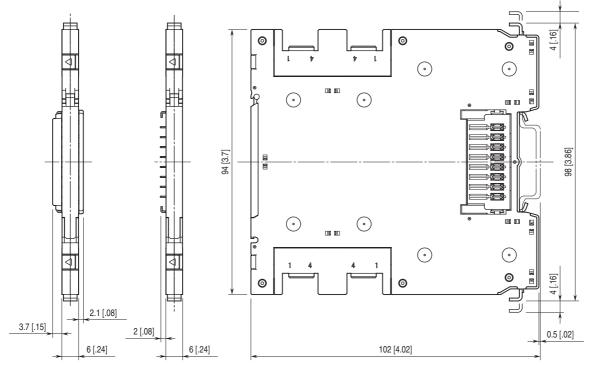


■ FRONT VIEW (with the front cover removed)



MODEL: M60EVS

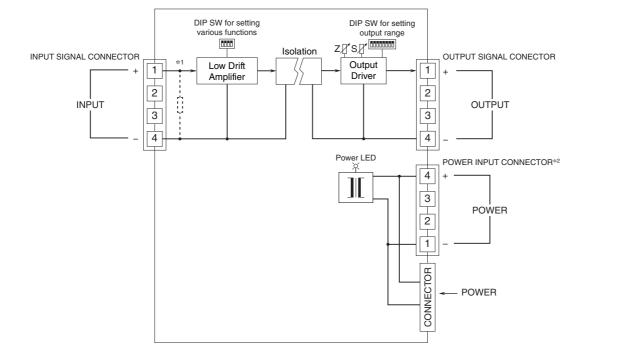
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



 \cdot With the end cover attached

· Capable of High-density mounting

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*1. Input shunt resistor incorporated for current input.

*2. Confirm the direction of e-CON.



Specifications are subject to change without notice.

