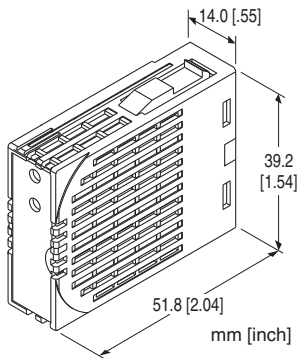


Super-mini Signal Conditioners M80 Series

SIGNAL CONVERTER

Functions & Features

- Converts DC input into isolated standardized process signal
- Isolates between analog input channels of a PLC
- Achieves space-saving and easy maintenance with Multi-channel Installation Base



MODEL: M80YV-[1]6-R

ORDERING INFORMATION

- Code number: M80BW-[1]6-R
- Specify a code from below for [1].
(e.g. M80BW-66-R)

[1] INPUT

Current

- A: 4 - 20 mA DC (Input resistance 250 Ω)
D: 0 - 20 mA DC (Input resistance 250 Ω)

Voltage

- 5: 0 - 5 V DC (Input resistance 1 MΩ min.)
6: 1 - 5 V DC (Input resistance 1 MΩ min.)
4W: -10 - +10 V DC (Input resistance 1 MΩ min.)

OUTPUT

Voltage

- 6: 1 - 5 V DC (Load resistance 10 kΩ min.)

POWER INPUT

DC Power

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

RELATED PRODUCTS

- Installation Base (model: M80BSx)
- This unit must be mounted on a dedicated base.

GENERAL SPECIFICATIONS

- Construction:** Plug-in
Housing material: Flame-resistant resin (gray)
Power supply: Via the Installation Base terminals (model: M80BSx)
Isolation: Input to output to power
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

- **DC Current:** Input resistor incorporated
 - **DC Voltage**
- Input resistance:** 1 MΩ min. (10 kΩ min. in power failure)

INSTALLATION

- Current consumption:** Approx. 50 mA
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 5 to 95 %RH (non-condensing)
Mounting: Multi-channel Installation Base (model: M80BSx)
Weight: 20 g (0.71 oz)

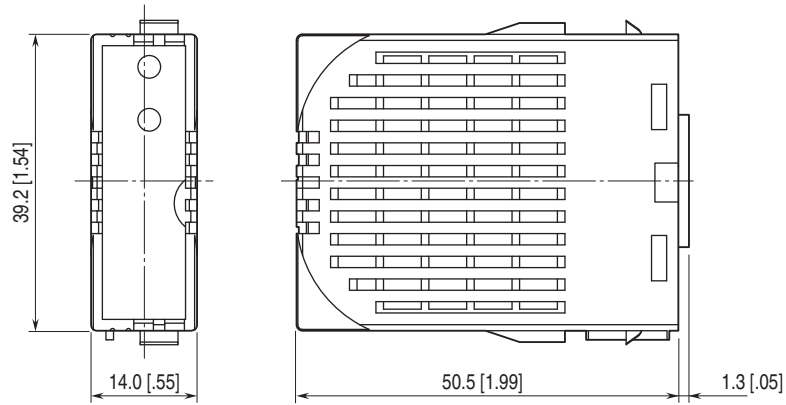
PERFORMANCE in percentage of span

- Accuracy:** ±0.1 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 15 msec. (0 - 90 %)
Line voltage effect: ±0.1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1000 V AC @1 minute (input to output to power to ground)

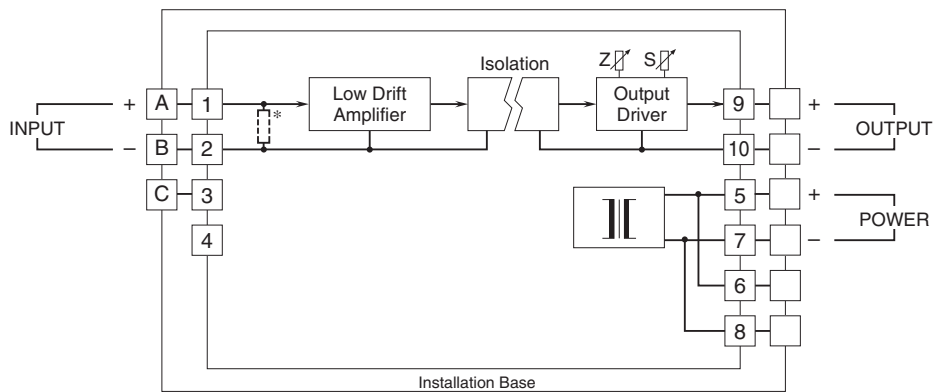
STANDARDS & APPROVALS

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

EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Input shunt resistor incorporated for current input.
Note: Use shielded cables for I/O wiring.



Specifications are subject to change without notice.