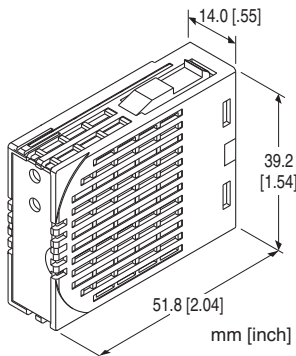


Super-mini Signal Conditioners M80 Series

OUTPUT ISOLATOR

Functions & Features

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



MODEL: M80YS-6[1]-R

ORDERING INFORMATION

- Code number: M80YS-6[1]-R
- Specify a code from below for [1].
(e.g. M80YS-66-R)

INPUT

Voltage

6: 1 - 5 V DC (Input resistance 1 M Ω min.)

[1] OUTPUT

Current

A: 4 - 20 mA DC (Load resistance 600 Ω max.)

D: 0 - 20 mA DC (Load resistance 600 Ω max.)

Voltage

4: 0 - 10 V DC (Load resistance 5000 Ω min.)

5: 0 - 5 V DC (Load resistance 2500 Ω min.)

6: 1 - 5 V DC (Load resistance 2500 Ω min.)

4W: -10 - +10 V DC (Load resistance 5000 Ω min.)

POWER INPUT

DC Power

R: 24 V DC

(Operational voltage range 24 V \pm 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 Voltage

Input resistance: 1 M Ω min. (10 k Ω 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: \pm 0.1 %

Temp. coefficient: \pm 0.015 %/°C (\pm 0.008 %/°F)

Response time: \leq 15 msec. (0 - 90 %)

Line voltage effect: \pm 0.1 % over voltage range

Insulation resistance: \geq 100 M Ω with 500 V DC

Dielectric strength: 1000 V AC @1 minute (input to output to power to ground)

STANDARDS & APPROVALS

EU conformity:

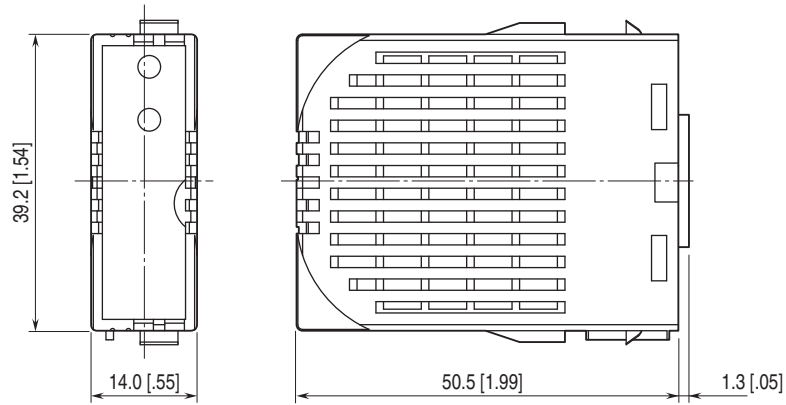
EMC Directive

EMI EN 61000-6-4

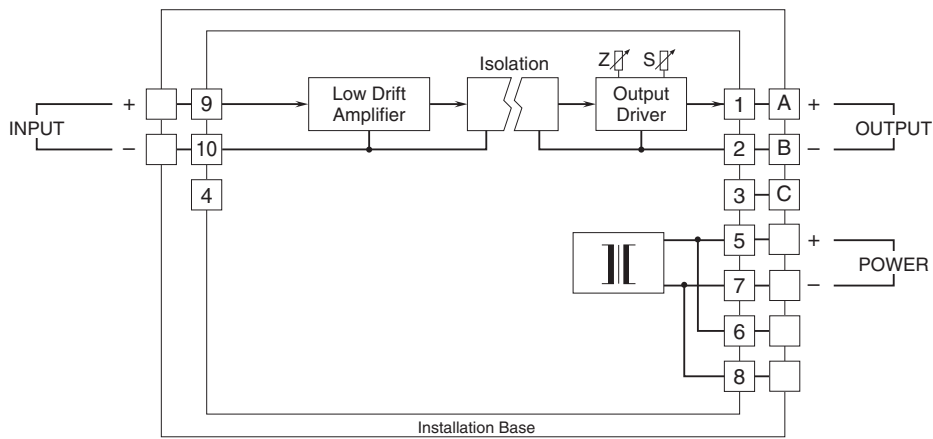
EMS EN 61000-6-2

RoHS Directive

EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Note: Use shielded cables for I/O wiring.



Specifications are subject to change without notice.