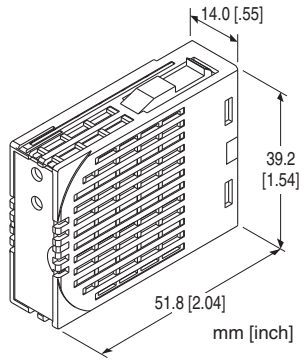
**Super-mini Signal Conditioners M80 Series**

## CURRENT LOOP SUPPLY

Functions & Features
- Powering a 4 – 20 mA DC current loop
- Space-saving, easy to-maintain, multi-channel installation base
- Isolates between analog output channels of a PLC

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## MODEL: M80DY-A6-R

## ORDERING INFORMATION

- Code number: M80DY-A6-R

## INPUT

**Current**

A: 4 – 20 mA DC (Input resistance approx. 249 Ω)

## 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: M80BS-x1x-R)

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: M80BS-x1x-R)
Isolation: Input to output to power
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (front)

## SUPPLY OUTPUT

Output voltage: 22 – 32 V DC with no load
Current rating: ≤ 22 mA DC
• Shortcircuit Protection
Current limited: 40 mA max.
Protected time duration: ≦ 1 min.

## INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

## INSTALLATION

Current consumption: Approx. 80 mA
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 5 to 95 %RH (non-condensing)
Mounting: Multi-channnel Installation Base (model: M80BS-x1x-R)
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



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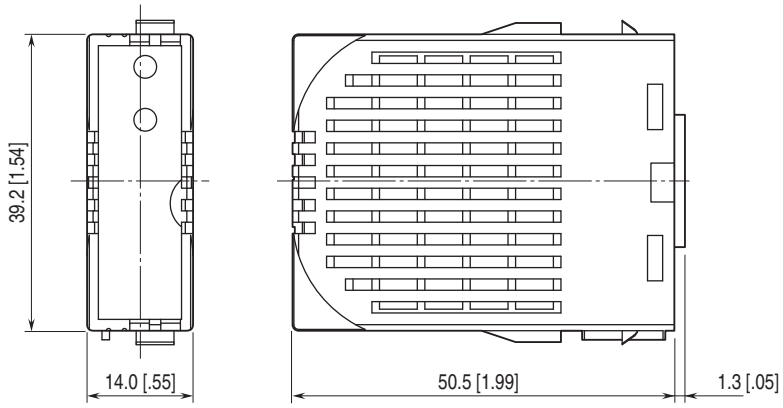
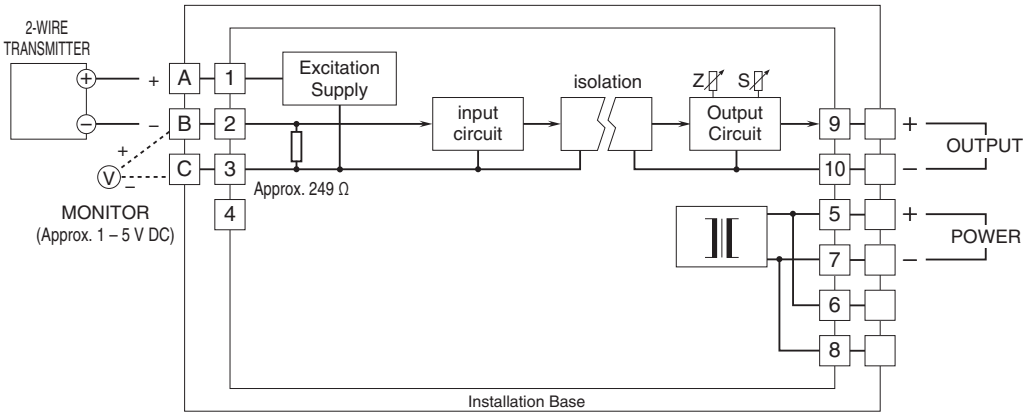
## EXTERNAL DIMENSIONS unit: mm [inch]




## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM




Note: Use shielded cables for I/O wiring.

⚠ Specifications are subject to change without notice.



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