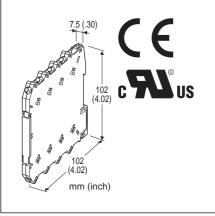
Screw Terminal Ultra-Slim Signal Conditioners M6N Series

CURRENT LOOP SUPPLY

Functions & Features

- 7.5-mm wide ultra-slim design
- Low profile allows the M6N module mounted in a 120-mm deep panel
- Powers a two-wire transmitter and galvanically isolates its output signal
- High-density mounting
- Power indicator LED
- UL approval



MODEL: M6NDY-[1]-R[2]

ORDERING INFORMATION

Code number: M6NDY-[1]-R[2]

Specify a code from below for each [1] and [2]. (e.g. M6NDY-A-R/UL)

INPUT

Current

4 – 20 mA DC (Input resistance 249.5 Ω)

[1] OUTPUT

Current

A: 4 - 20 mA DC (Load resistance 550 Ω max.) Voltage 4: 0 - 10 V DC (Load resistance 10 k Ω min.) 5: 0 - 5 V DC (Load resistance 5000 Ω min.) 6: 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.)

[2] OPTIONS

STANDARDS & APPROVALS

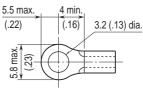
blank: CE marking /UL: UL approval (CE marking)

GENERAL SPECIFICATIONS

Connection

Input and output: M3 screw terminal (torque 0.5 N·m) Power input: Via the Installation Base (model: M6NBS) or M3 screw terminal (torque 0.5 N·m) Recommended solderless terminal: Max. 5.8 mm (0.23") wide; Ones with insulation sleeve do not fit. Applicable wire size $0.2 - 2.5 \text{ mm}^2$ 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 LED: Green light turns on when the power is supplied.

Recommended solderless terminal



SUPPLY OUTPUT

(across the terminals 3 – 4) Output voltage: 24 – 30 V DC with no load 18 V DC min. at 20 mA Current rating: 22 mA DC max.

Shortcircuit Protection
Current limited: 45 mA max.
Protected time duration: No limit

INPUT SPECIFICATIONS

• DC Current: Input resistor incorporated

INSTALLATION

Power consumption: Approx. 1 W (1.1 W for UL approval) Operating temperature: -20 to +55°C (-4 to +131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Installation Base (model: M6NBS) or DIN rail Weight: 60 g (2.1 oz)

PERFORMANCE in percentage of span

Accuracy: $\pm 0.1 \%$ Temp. coefficient: $\pm 0.01 \%/^{\circ}C (\pm 0.006 \%/^{\circ}F)$ Response time: $\leq 100 \text{ msec.} (0 - 90 \%)$ Line voltage effect: $\pm 0.1 \%$ over voltage range

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http://www.m-system.co.jp/

Insulation resistance: \geq 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)

STANDARDS & APPROVALS

CE conformity:

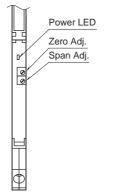
EMC Directive (2004/108/EC) EN 61000-6-4 (EMI) EN 61000-6-2 (EMS)

Approval:

UL/C-UL nonincendive Class I, Division 2, Groups A, B, C, and D hazardous locations (ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213) UL/C-UL general safety requirements (UL 61010-1, CAN/CSA-C22.2 No.61010-1)

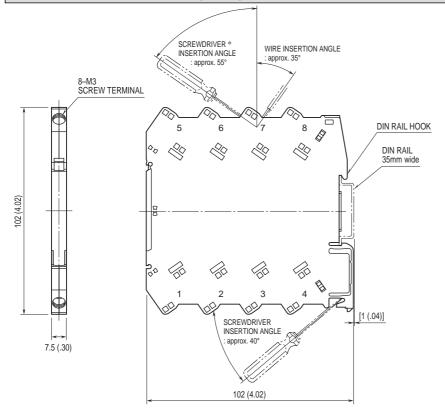
EXTERNAL VIEW

(With the cover open)





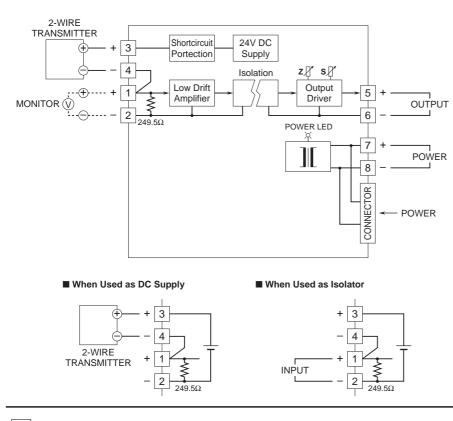




*Screwdriver stem diameter: 6 mm (.24") or less

When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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M6NDY SPECIFICATIONS



Specifications are subject to change without notice.



M6NDY SPECIFICATIONS