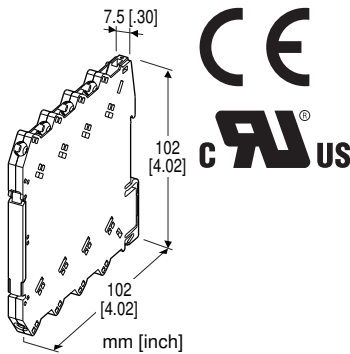


Screw Terminal Ultra-Slim Signal Conditioners M6N Series

ISOLATOR

Functions & Features

- 7.5-mm wide ultra-slim design
- Low profile allows the M6N module mounted in a 120-mm deep panel
- Galvanically isolates process instrumentation signals
- High-density mounting
- Power indicator LED



MODEL: M6NYV-[1][2]-[3][4]

ORDERING INFORMATION

- Code number: M6NYV-[1][2]-[3][4]
- Specify a code from below for each of [1] through [4].
(e.g. M6NYV-4W4W-R/K/UL/Q)
- Specify the specification for option code /Q
(e.g. /C01)

[1] INPUT / [2] OUTPUT

- AA:** 4 - 20 mA DC (Input resistance 50 Ω)
/ 4 - 20 mA DC (Load resistance 550 Ω max.)
- A6:** 4 - 20 mA DC (Input resistance 50 Ω)
/ 1 - 5 V DC (Load resistance 5000 Ω min.)
- 6A:** 1 - 5 V DC (Input resistance 1 MΩ min.)
/ 4 - 20 mA DC (Load resistance 550 Ω max.)
- 66:** 1 - 5 V DC (Input resistance 1 MΩ min.)
/ 1 - 5 V DC (Load resistance 5000 Ω min.)
- 4W4W:** -10 - +10 V DC (Input resistance 1 MΩ min.)
/ -10 - +10 V DC (Load resistance 20 kΩ min.)

[3] POWER INPUT

- AC Power
- M2:** 100 - 240 V AC (Operational voltage range 90 - 264 V,
47 - 66 Hz)
(UL not available)

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

[4] OPTIONS (multiple selections)

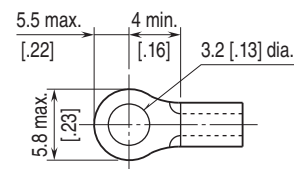
- Response Time (0 - 90 %)
- blank:** Standard (≤ 0.5 sec.)
- /K:** Fast Response (Approx. 3.5 msec. voltage output;
Approx. 25 msec. current output)
- Standards & Approvals
- blank:** CE marking
- /UL:** UL approval, CE marking
- Other Options
- blank:** none
- /Q:** Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q

- COATING (For the detail, refer to our web site.)
- /C01:** Silicone coating
- /C02:** Polyurethane coating

GENERAL SPECIFICATIONS

- Connection**
- Input and output:** M3 screw terminal (torque 0.5 N·m)
- Power input:** Via the Installation Base (model: M6NBS) (not available for AC power input)
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 mm²
- Housing material:** Flame-resistant resin (black)
- Isolation:** Input to output to power
- Zero adjustment:** -2 to +2 % (front)
(Output code 4W: Adjustable at 0 V.)
- Span adjustment:** 98 to 102 % (front)
- Power indicator LED:** Green LED turns on when the power is supplied.
- Recommended solderless terminal (unit: mm [inch])



INPUT SPECIFICATIONS

- DC Current: Input resistor incorporated

INSTALLATION

Power Consumption

- AC: Max. 2 VA
- DC: Approx. 0.45 W

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: $\pm 0.01\%/^{\circ}\text{C}$ ($\pm 0.006\%/^{\circ}\text{F}$)

Line voltage effect: $\pm 0.1\%$ over voltage range

Insulation resistance: $\geq 100\text{ M}\Omega$ with 500 V DC

Dielectric strength: 2000 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

Low Voltage Directive

EN 61010-1

Installation Category II

Pollution Degree 2

Input or output to power: Reinforced insulation (300 V)

Input to output: Basic insulation (300 V)

RoHS Directive

Approval:

UL/C-UL nonincendive Class I, Division 2,

Groups A, B, C, and D

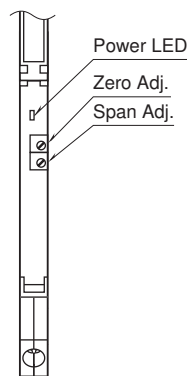
(ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213)

UL/C-UL general safety requirements

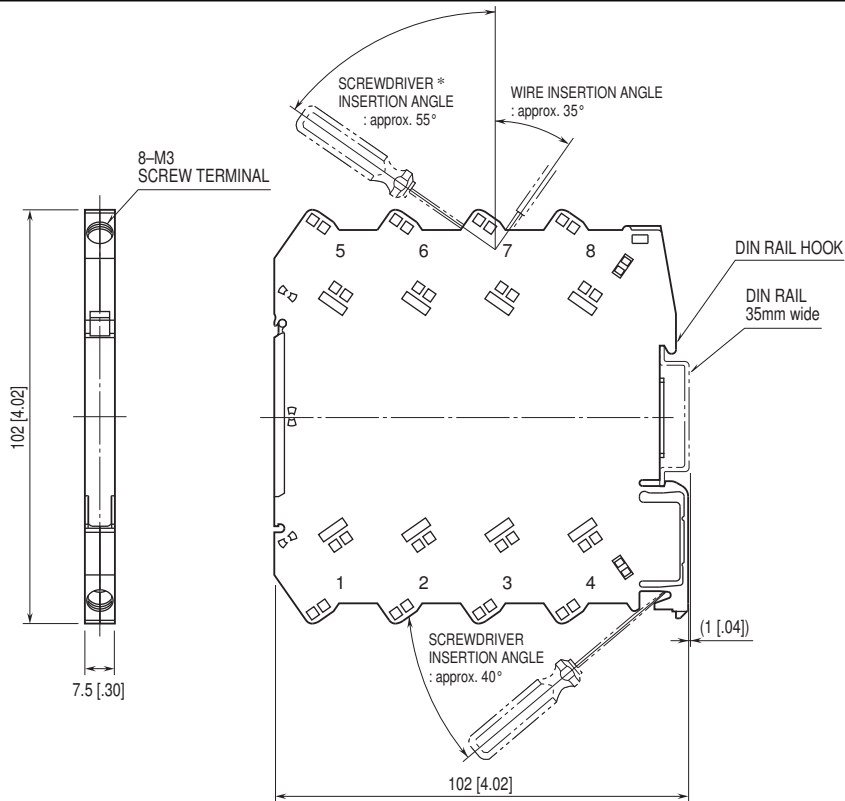
(UL 61010-1, CAN/CSA-C22.2 No.61010-1)

EXTERNAL VIEW

(With the cover open)

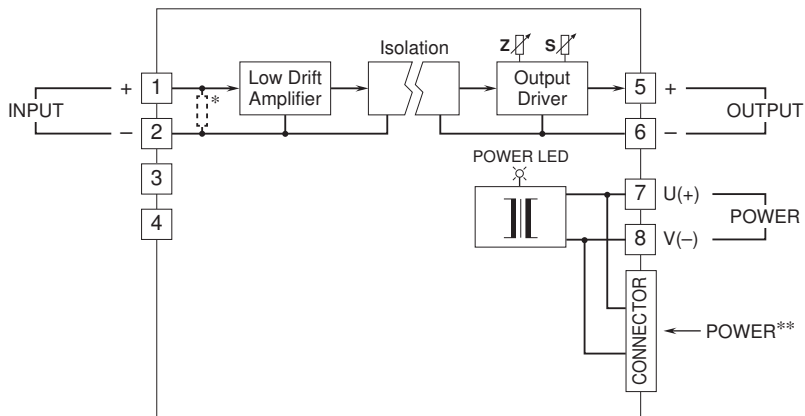


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



*Screwdriver stem diameter: 6 mm [.24"] or less • When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Input shunt resistor incorporated for current input.
 ** Available only for DC power input type



Specifications are subject to change without notice.