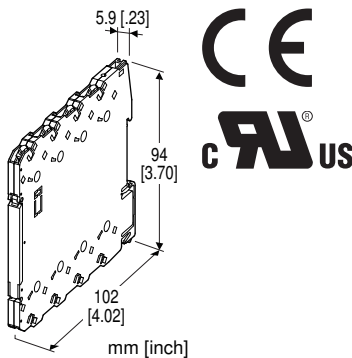


## Tension-Clamp Ultra-Slim Signal Conditioners M6S Series

### INPUT LOOP POWERED ISOLATOR

#### Functions & Features

- Maintenance-free tension clamp connection
- 5.9-mm wide ultra-slim design
- Low profile allows the M6S module mounted in a 120-mm deep panel
- Loop-powered design eliminates output loop power supply
- Two isolators housed in one enclosure
- High-density mounting



### MODEL: M6SSN-[1]DD[2]

#### ORDERING INFORMATION

- Code number: M6SSN-[1]DD[2]
- Specify a code from below for each of [1] and [2].  
(e.g. M6SSN-2DD/UL/Q)
- Specify the specification for option code /Q  
(e.g. /C01)

#### [1] NO. OF CHANNELS

- 1: 1 channel
- 2: 2 channels

#### INPUT

##### Current

D: 0 - 20 mA DC (4 - 20 mA DC)

#### OUTPUT

##### Current

D: 0 - 20 mA DC (4 - 20 mA DC)

#### [2] OPTIONS (multiple selections)

##### 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 M-System's web site.)

/C01: Silicone coating

/C02: Polyurethane coating

#### GENERAL SPECIFICATIONS

Connection: Tension clamp

Applicable wire size: 0.2 to 2.5 mm<sup>2</sup>, stripped length 8 mm

Housing material: Flame-resistant resin (black)

Isolation: Input to output; between channels

Span adjustments: ±0.5 % (front)

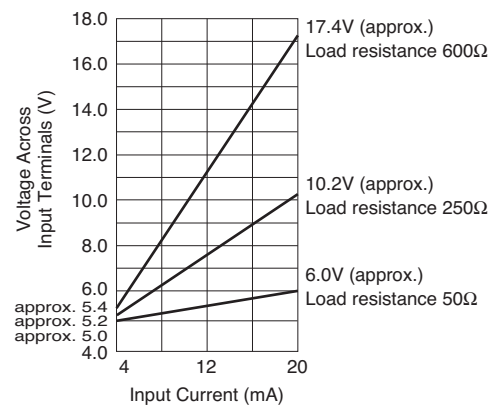
#### INPUT & OUTPUT

Equivalent input impedance: 250 Ω plus load resistance with 20 mA input

Operational range: 0.05 - 40 mA DC (Accuracy is assured within 0.05 - 22 mA)

Minimum operating current: 0.05 mA

Load resistance: 0 - 600 Ω



#### INSTALLATION

Operating temperature: -20 to +55°C (-4 to +131°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Installation Base (model: M6SBS) or DIN rail

Weight: 60 g (2.1 oz)

## PERFORMANCE in percentage of span

**Accuracy:**  $\pm 0.1\%$

**Temp. coefficient:**  $\pm 0.015\%/^{\circ}\text{C}$  ( $\pm 0.008\%/^{\circ}\text{F}$ )

**Response time:** Approx. 20 msec. (0 - 90 %, 250  $\Omega$  load)

**Load effect:** (factory-calibrated with 250  $\Omega$  load)

0.004%/ $\Omega$  (0 - 600  $\Omega$ )

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

**Dielectric strength:**

1500 V AC @1 minute (input to output)

2000 V AC @1 minute (between channels)

2000 V AC @1 minute (input or output to ground)

## STANDARDS & APPROVALS

**EU conformity:**

EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

RoHS Directive

**Approval:**

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

Groups A, B, C, and D hazardous locations

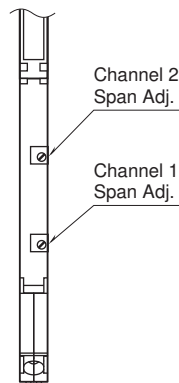
(ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213)

UL/C-UL general safety requirements

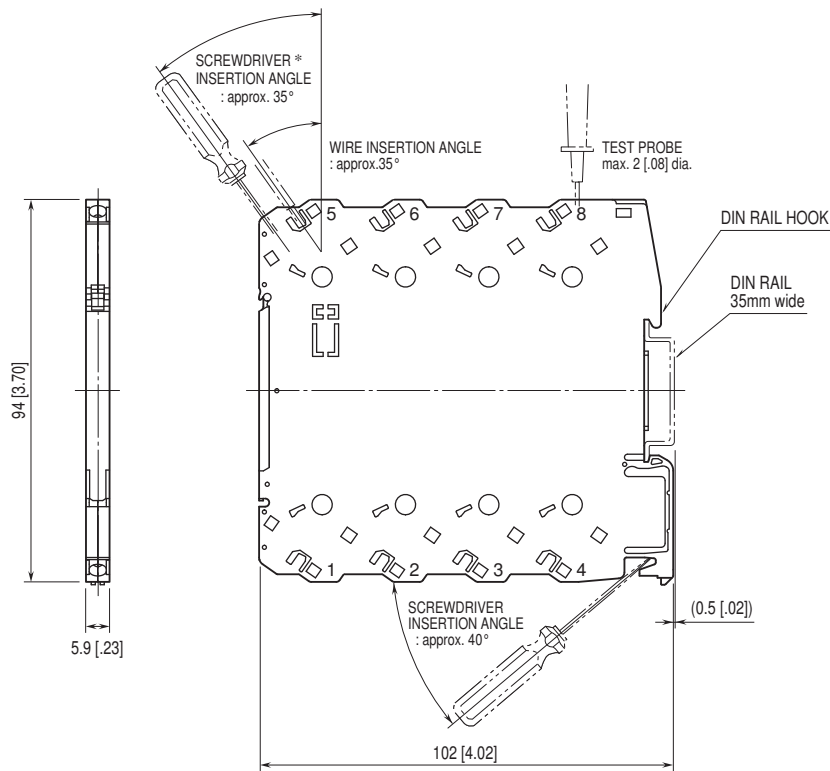
(UL 61010-1, CAN/CSA-C22.2 No.61010-1)

## EXTERNAL VIEW

(With the cover open)



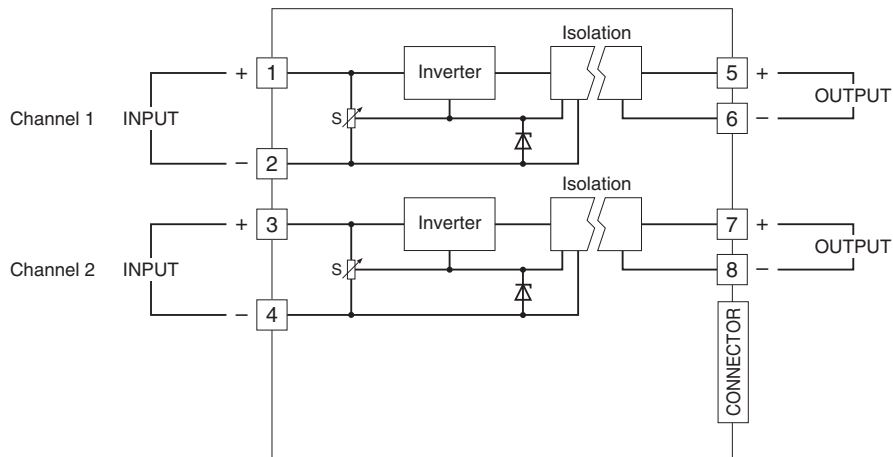
## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



• When mounting, no extra space is needed between units.

\*Use a minus screwdriver: tip width 3.8 mm max., tip thickness 0.5 to 0.6 mm

## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.