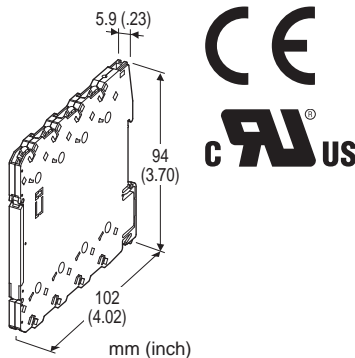


## Tension-Clamp Ultra-Slim Signal Conditioners M6S Series

### 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
- UL approval



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

### ORDERING INFORMATION

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

### [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

#### STANDARDS & APPROVALS

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

### 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:**  $\pm 0.5\%$  (front)

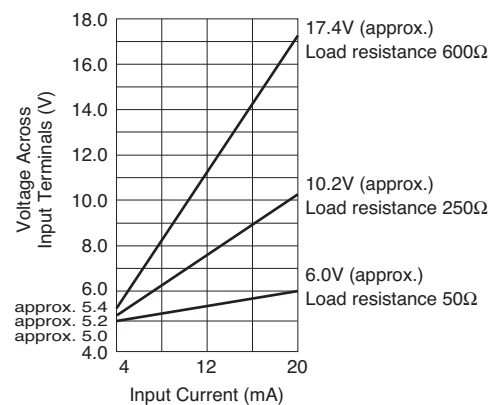
### INPUT & OUTPUT

**Equivalent input impedance:** 250  $\Omega$  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  $\Omega$



### 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 %)

**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

**CE conformity:**

EMC Directive (2004/108/EC)

EN 61000-6-4 (EMI)

EN 61000-6-2 (EMS)



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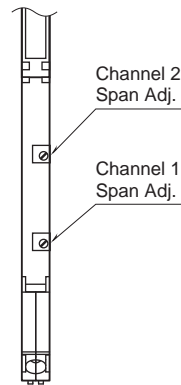
E-mail : info@xintop.com  
Website : www.xintop.com

## Approval:

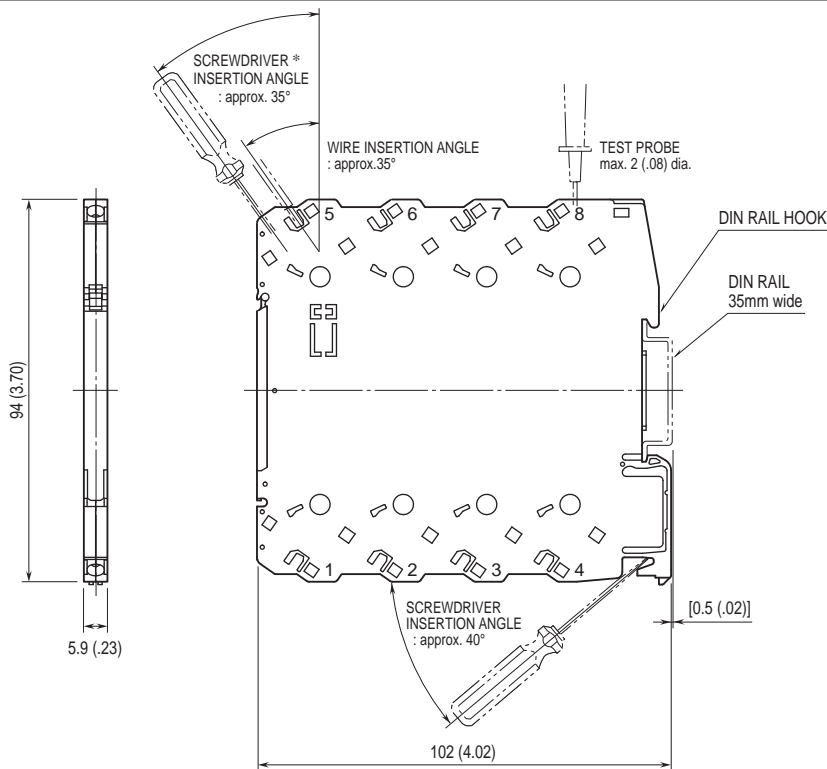
UL/C-UL nonincendive Class I, Division 2,  
Groups A, B, C, and D hazardous locations  
(ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213)  
UL/C-UL general safety requirements  
(UL 61010-1, CAN/CSA-C22.2 No.61010-1)

## EXTERNAL VIEW

(With the cover open)



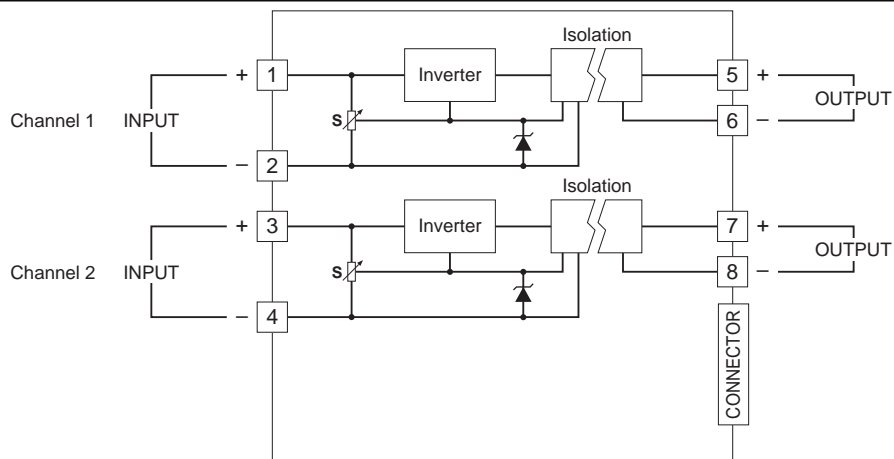
## DIMENSIONS unit: mm (inch)



• 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.