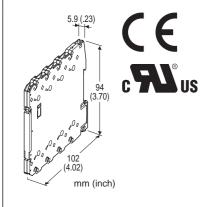
MODEL: M6SDY

Tension-Clamp Ultra-Slim Signal Conditioners M6S Series

CURRENT LOOP SUPPLY

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
- Powers a two-wire transmitter and galvanically isolates its output signal
- · High-density mounting
- Power indicator LED
- UL approval



MODEL: M6SDY-[1]-R[2]

ORDERING INFORMATION

• Code number: M6SDY-[1]-R[2] Specify a code from below for each [1] and [2]. (e.g. M6SDY-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 $k\Omega$ 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: Tension clamp

Power input: Via the Installation Base (model: M6SBS)

or Tension clamp

Applicable wire size: 0.2 to 2.5 mm², stripped length 8 mm

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.

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: M6SBS) or DIN rail

Weight: 60 g (2.1 oz)

PERFORMANCE in percentage of span

Accuracy: ±0.1 %

Temp. coefficient: ± 0.01 %/°C (± 0.006 %/°F) Response time: ≤ 100 msec. (0 – 90 %) Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 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:

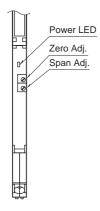
EMC Directive (2004/108/EC) EN 61000-6-4 (EMI) EN 61000-6-2 (EMS)

Approval:

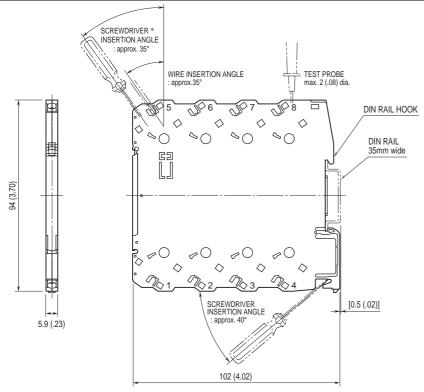
UL/C-UL nonincendive Class I, Division 2, Groups A, B, C, and D hazardous locations (ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213) UL/C-UL general safety requirements (UL 61010-1, CAN/CSA-C22.2 No.61010-1)

EXTERNAL VIEW

(With the cover open)



DIMENSIONS unit: mm (inch)

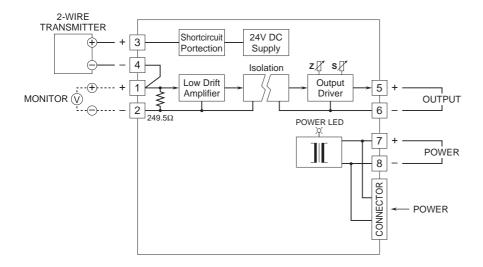


 \bullet When mounting, no extra space is needed between units.

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

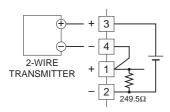
MODEL: M6SDY

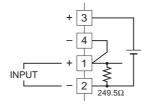
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



■ When Used as DC Supply

■ When Used as Isolator





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Specifications are subject to change without notice.