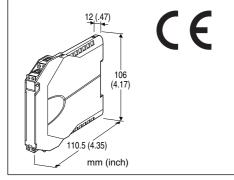
MODEL: M3SDY

# Super-space-saving Signal Conditioners M3S-UNIT Series

#### **CURRENT LOOP SUPPLY**

#### **Functions & Features**

- Powers a two-wire transmitter and galvanically isolates its output signal
- High-density mounting
- Power indicator LED
- CE marking



MODEL: M3SDY-[1]-R

#### ORDERING INFORMATION

Code number: M3SDY-[1]-R
 Specify a code from below for [1]
 (e.g. M3SDY-A-R)

# **INPUT**

#### **Current**

4 - 20 mA DC (Input resistance 249.5 Ω)

# [1] OUTPUT

# Current

**A**: 4 - 20 mA DC (Load resistance 550  $\Omega$  max.)

#### Voltage

**4**: 0 - 10 V DC (Load resistance 10  $k\Omega$  min.)

**5**: 0 – 5 V DC (Load resistance 5000  $\Omega$  min.)

**6**: 1 - 5 V DC (Load resistance 5000  $\Omega$  min.)

#### **POWER INPUT**

#### **DC Power**

R: 24 V DC

(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

#### **GENERAL SPECIFICATIONS**

Construction: Small-sized front terminal structure

Connection: Removable terminal block

Applicable wire size: 0.2 to 2.5 mm<sup>2</sup>

Housing material: Flame-resistant resin (gray)

**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 - 28 V DC with no load

18 V DC min. at 20 mA

Current rating: ≤ 22 mA DC

• Shortcircuit Protection

Current limited: 45 mA max.

Protected time duration: No limit

#### **INPUT SPECIFICATIONS**

• DC Current: Input resistor incorporated

#### **INSTALLATION**

Power Consumption

•DC: Approx. 1 W

Operating temperature: -20 to +55°C (-4 to +131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: DIN rail Weight: 100 g (3.53 oz)

# PERFORMANCE in percentage of span

Accuracy: ±0.1 %

Temp. coefficient:  $\pm 0.015$  %/°C ( $\pm 0.008$  %/°F) Response time:  $\leq 100$  msec. (0 – 90 %) Line voltage effect:  $\pm 0.1$  % over voltage range Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC

Dielectric strength: 2000 V AC @1 minute (input to output

to power to ground)

#### **STANDARDS & APPROVALS**

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

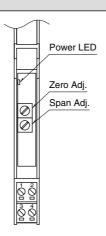
CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005

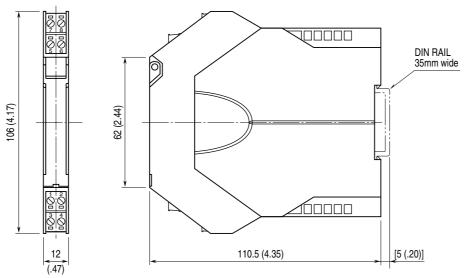


MODEL: M3SDY

# **EXTERNAL VIEW**

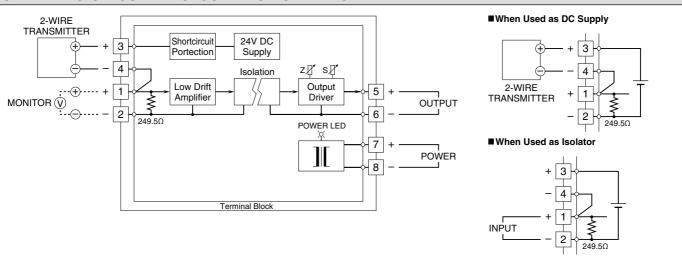


# **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)**



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

# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



幸託有限公司 XIN TOP CORPORATION TEL: (02)2598-1199 E-mail: info@xintop.com

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MODEL: M3SDY

Specifications are subject to change without notice.