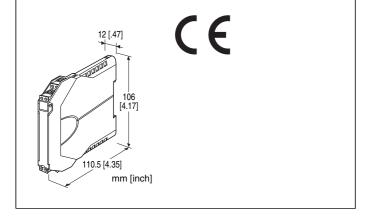
**MODEL: M3SDY** 

# 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



**MODEL:** M3SDY-[1]-R[2]

#### **ORDERING INFORMATION**

• Code number: M3SDY-[1]-R[2]

Specify a code from below for each of [1] and [2]. (e.g. M3SDY-A-R/Q)

• Specify the specification for option code /Q (e.g. /C01)

#### 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 kΩ min.)

**5**:  $0 - 5 \text{ V DC (Load resistance 5000 } \Omega \text{ min.)}$ 

**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.)

#### [2] OPTIONS

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 /C03: Rubber coating

#### **GENERAL SPECIFICATIONS**

**Construction**: Small-sized front terminal structure **Connection**: Euro type connector terminal

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

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 indicator LED: Green LED 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 (0.22 lb)

#### 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

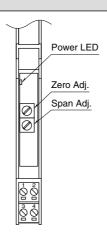
to power to ground)

## **STANDARDS & APPROVALS**

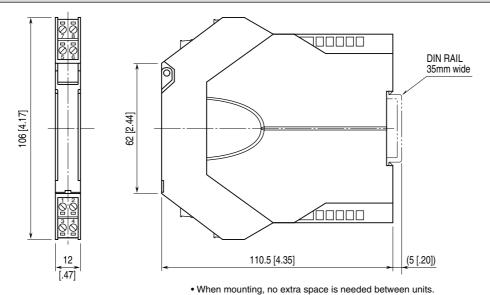
EU conformity: EMC Directive EMI EN 61000-6-4

EMS EN 61000-6-2 RoHS Directive

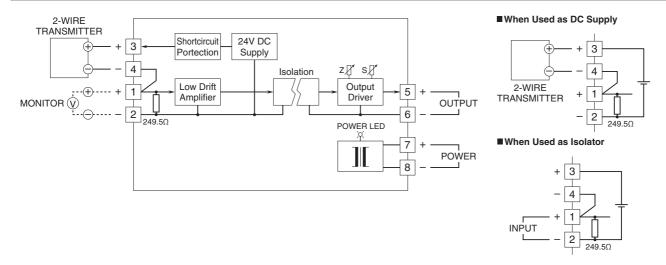
### **EXTERNAL VIEW**



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



# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



 $\Lambda$ 

Specifications are subject to change without notice.