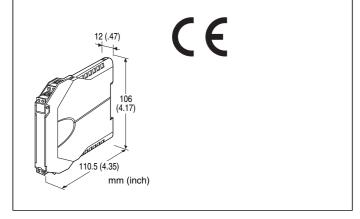
MODEL: M3SDY

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 [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 Ω max.)

Voltage

4: 0 – 10 V DC (Load resistance 10 kΩ 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

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 /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

 $\textbf{Housing material} : \ \mathsf{Flame}\text{-resistant resin (gray)}$

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: $\pm 0.1~\%$

Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°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

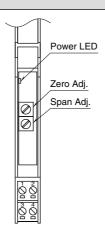
to power to ground)

MODEL: M3SDY

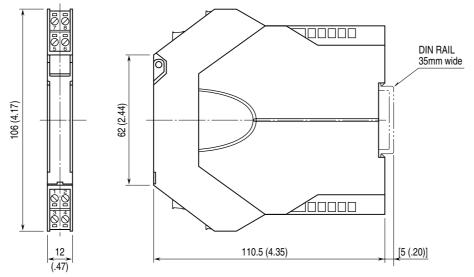
STANDARDS & APPROVALS

EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive EN 50581

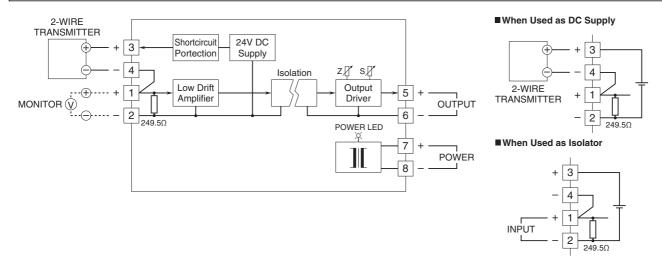
EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.