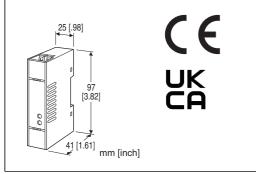
Super-mini Terminal Block Signal Conditioners M5-UNIT

INPUT LOOP POWERED ISOLATOR

Functions & Features

Input-loop-powered design eliminates need for an output

- loop power supply
- 350 Ω output drive
- High-density mounting



MODEL: M5SN-AA[1]

ORDERING INFORMATION

• Code number: M5SN-AA[1] Specify a code from below for [1].

(e.g. M5SN-AA/Q)

• Specify the specification for option code /Q (e.g. /C01/S01)

INPUT

Current A: 4 – 20 mA DC

OUTPUT

Current A: 4 – 20 mA DC

[1] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating

/C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Terminal block

Connection: M3.5 screw terminals (torque 0.8 N·m) Screw terminal: Nickel-plated steel (standard) or stainless steel

Housing material: Flame-resistant resin (black) Isolation: Input to output Zero adjustment: -0.5 to +0.5 % (front) Span adjustment: 98.5 to 101.5 % (front)

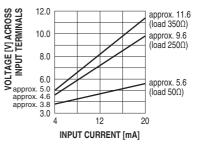
INPUT & OUTPUT

• Input 4 – 20 mA DC / Output 4 – 20 mA DC Equivalent input impedance: 230 Ω plus load resistance with 20 mA input

Operational range: 3 - 22 mA DC

(Accuracy is assured within 4 - 22 mA)

Load resistance: 350 Ω maximum; min. 50 Ω required for adequate operation



INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 0 to 90 %RH (non-condensing) Mounting: DIN rail Weight: 80 g (2.8 oz)

PERFORMANCE in percentage of span

Accuracy: $\pm 0.1 \%$ Temp. coefficient: $\pm 0.02 \%$ /°C ($\pm 0.01 \%$ /°F) Response time: Approx. 15 msec. (0 – 90 %, 50 Ω load) Load effect: (factory-calibrated with 250 Ω load) 0.015 %/ Ω (50 – 150 Ω) 0.003 %/ Ω (150 – 350 Ω) Insulation resistance: $\geq 100 \ M\Omega$ with 500 V DC Dielectric strength: 500 V AC @1 minute (input to output) 2000 V AC @1 minute (input or output to ground)

STANDARDS & APPROVALS

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



M5SN SPECIFICATIONS

RoHS Directive UK conformity (UKCA):

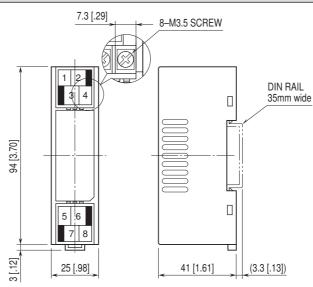
The UK legislations and designated standards are

equivalent to the applicable EU directives.

(Refer to M-System's website for more information about

the legislations and designated standards.)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

