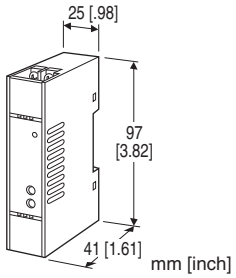
Super-mini Terminal Block Signal Conditioners M5-UNIT

ISOLATOR

Functions & Features

• Isolation of instrument unified signals (DC isolation between inputs and outputs)
• High-density mounting
• Power LED



CE

MODEL: M5YV-[1][2]-R[3]

ORDERING INFORMATION

• Code number: M5YV-[1][2]-R[3]
Specify a code from below for each of [1] through [3].
(e.g. M5VS-6A-R/Q)
• Special input and output ranges (For codes Z, 0, 01 & 02)
• Specify the specification for option code /Q
(e.g. /C01/VN/S01)

[1] INPUT

Current
A: 4 – 20 mA DC (Input resistance 249 Ω)
Voltage
6: 1 – 5 V DC (Input resistance 1 MΩ min.)

[2] OUTPUT

Current
A: 4 – 20 mA DC (Load resistance 550 Ω max.)
Voltage
6: 1 – 5 V DC (Load resistance 500 Ω min.)

POWER INPUT

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

[3] OPTIONS

Other Options
blank: none
/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating
ADJUSTMENT
/VN: Sealed adjustment holes
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 to power
Overrange output: Approx. -10 to +110 % at 1 – 5 V
Zero adjustment: -2 to +2 % (front)
Span adjustment: 98 to 102 % (front)
Power indicator LED: Green LED turns on when the power is supplied.

INPUT SPECIFICATIONS

■ **DC Current**: Input resistor incorporated
■ **DC Voltage**
Input resistance: 1 MΩ min. (10 kΩ min. in power failure)

INSTALLATION

Power consumption
•**DC**: Approx. 2 W
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: ±0.1 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 0.5 sec. (0 – 90 %)
Line voltage effect: ±0.1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)

STANDARDS & APPROVALS

EU conformity:
EMC Directive

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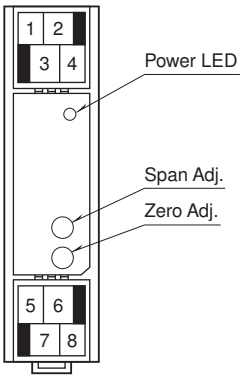
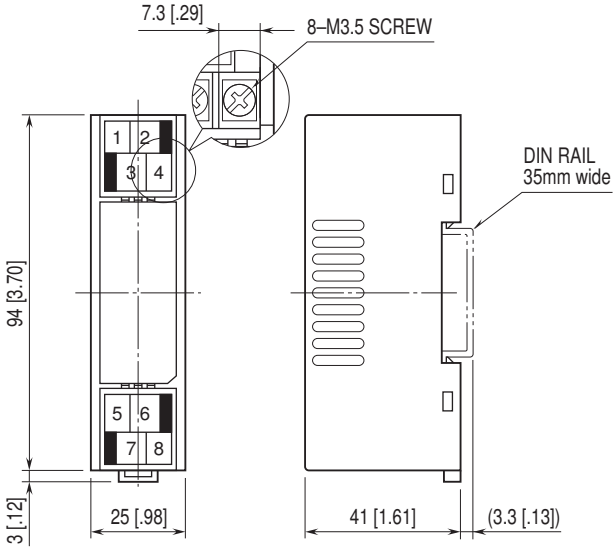
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive

FRONT VIEW

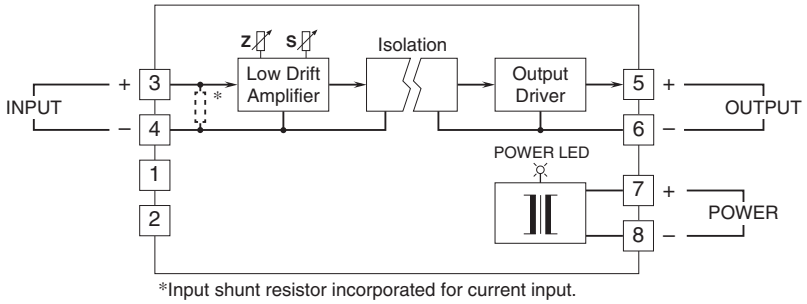


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*Input shunt resistor incorporated for current input.

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⚠ Specifications are subject to change without notice.

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