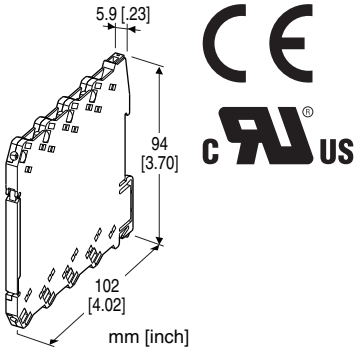
Euro Terminal Ultra-Slim Signal Conditioners M6D Series

ISOLATOR

Functions & Features
- 5.9-mm wide ultra-slim design
- Low profile allows the M6D module mounted in a 120-mm deep panel
- Galvanically isolates process instrumentation signals
- High-density mounting
- Power indicator LED



MODEL: M6DYV-[1][2]-[3][4]

ORDERING INFORMATION

- Code number: M6DYV-[1][2]-[3][4]

Specify a code from below for each of [1] through [4].
(e.g. M6DYV-4W4W-R/K/UL/Q)
- Specify the specification for option code /Q

(e.g. /C01)

[1] INPUT / [2] OUTPUT

AA: 4 - 20 mA DC (Input resistance 50 Ω)
/ 4 - 20 mA DC (Load resistance 550 Ω max.)
A6: 4 - 20 mA DC (Input resistance 50 Ω)
/ 1 - 5 V DC (Load resistance 5000 Ω min.)
6A: 1 – 5 V DC (Input resistance 1 MΩ min.)
/ 4 - 20 mA DC (Load resistance 550 Ω max.)
66: 1 - 5 V DC (Input resistance 1 MΩ min.)
/ 1 - 5 V DC (Load resistance 5000 Ω min.)
4W4W: -10 - +10 V DC (Input resistance 1 MΩ min.)
/ -10 - +10 V DC (Load resistance 20 kΩ min.)

[3] POWER INPUT

AC Power
M2: 100 – 240 V AC (Operational voltage range 90 – 264 V, 47 – 66 Hz)
(UL not available)
DC Power
R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

[4] OPTIONS (multiple selections)

Response Time (0 – 90 %)
blank: Standard (≤ 0.5 sec.)
/K: Fast Response (Approx. 3.5 msec. voltage output; Approx. 25 msec. current output)
Standards & Approvals
blank: CE marking
/UL: UL approval, CE marking
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

GENERAL SPECIFICATIONS

Connection
Input and output: Euro terminal (torque 0.3 N·m)
Power input: Via the Installation Base (model: M6DBS) (not available for AC power input)
or Euro terminal (torque 0.3 N·m)
Applicable wire size: 0.2 to 2.5 mm^2, stripped length 8 mm
Housing material: Flame-resistant resin (black)
Isolation: Input to output to power
Zero adjustment: -2 to +2 % (front)
(Output code 4W: Adjustable at 0 V.)
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

INSTALLATION

Power Consumption
•**AC**: Max. 2 VA
•**DC**: Approx. 0.45 W
Operating temperature: -20 to +55°C (-4 to +131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Installation Base (model: M6DBS) or DIN rail
Weight: 60 g (2.1 oz)

PERFORMANCE in percentage of span

Accuracy: ±0.1 %
Temp. coefficient: ±0.01 %/°C (±0.006 %/°F)
Line voltage effect: ±0.1 % over voltage range

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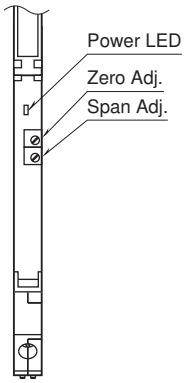
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)

STANDARDS & APPROVALS

EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
Low Voltage Directive
EN 61010-1
Installation Category II
Pollution Degree 2
Input or output to power: Reinforced insulation (300 V)
Input to output: Basic insulation (300 V)
RoHS Directive
Approval:
UL/C-UL nonincendive Class I, Division 2,
Groups A, B, C, and D
(ANSI/ISA-12.12.01, CAN/CSA-C22.2 No.213)
UL/C-UL general safety requirements
(UL 61010-1, CAN/CSA-C22.2 No.61010-1)

EXTERNAL VIEW

(With the cover open)



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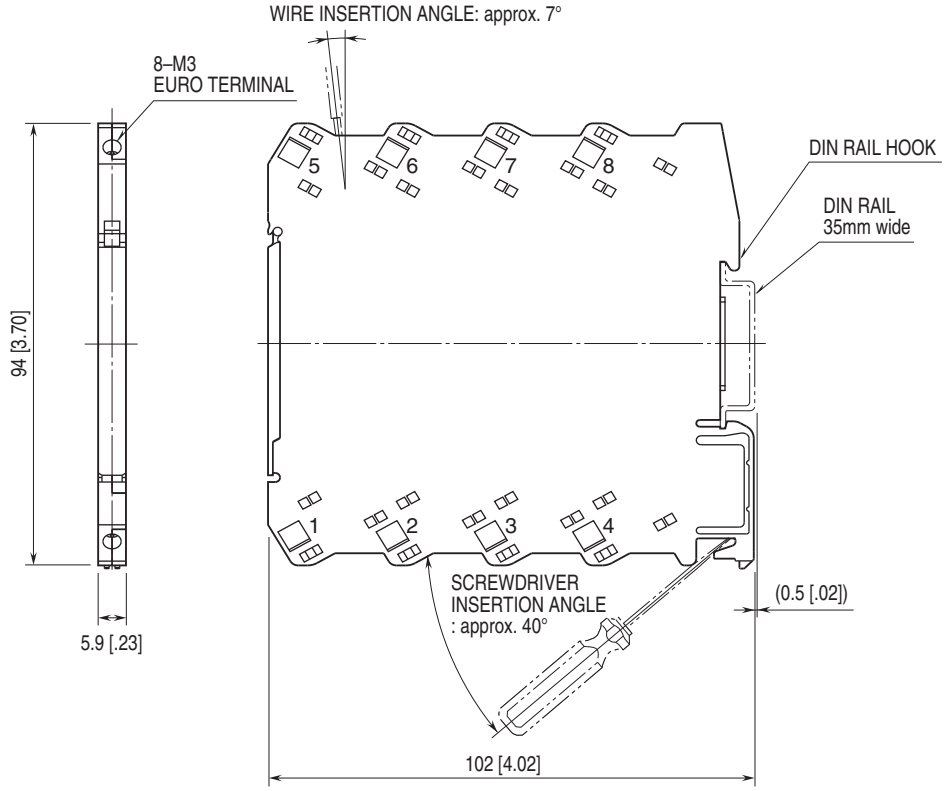
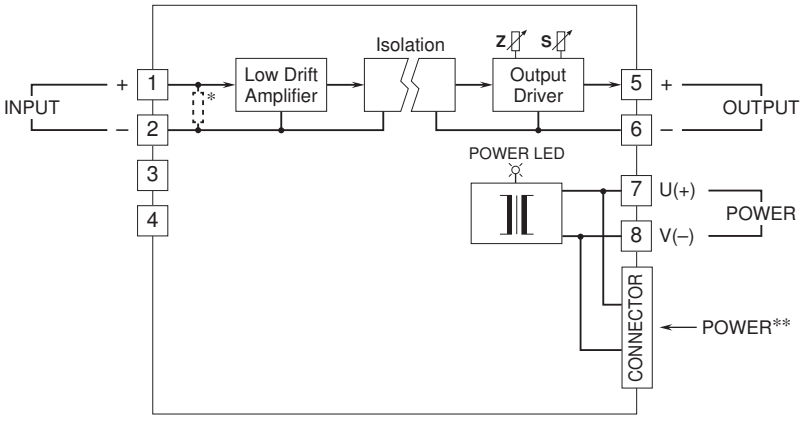
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Input shunt resistor incorporated for current input.
** Available only for DC power input type

⚠ Specifications are subject to change without notice.

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