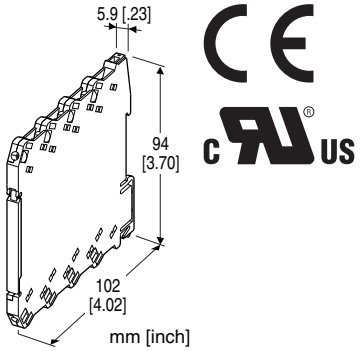
**Euro Terminal Ultra-Slim Signal Conditioners M6D Series**

## 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 M-System's 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



M-SYSTEM CO., LTD.
https://www.m-system.co.jp/

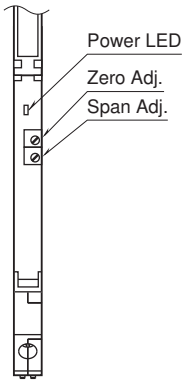
**Insulation resistance**: ≥ 100 MΩ with 500 V DC
**Dielectric strength**: 2000 V AC @1 minute (input to output to power to ground)

## STANDARDS & APPROVALS

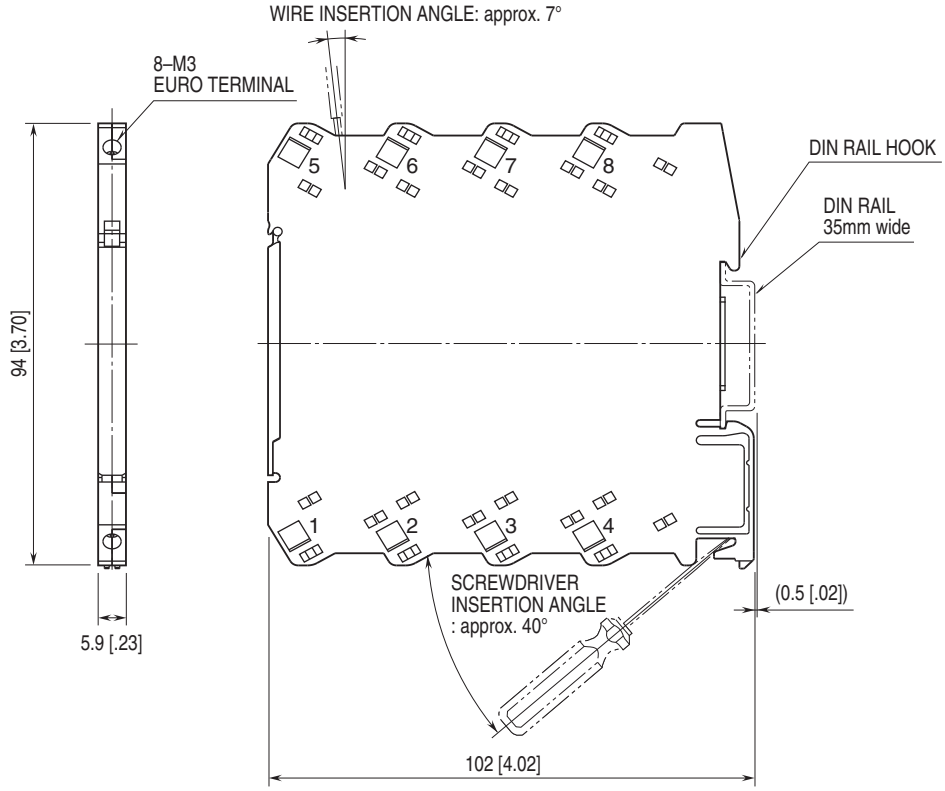
**EU conformity**:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
Low Voltage Directive
EN 61010-1
Installation Category II
Pollution Degree 2
Input or output to power: Reinforced insulation (300 V)
Input to output: Basic insulation (300 V)
RoHS Directive
**Approval**:
UL/C-UL nonincendive Class I, 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)**

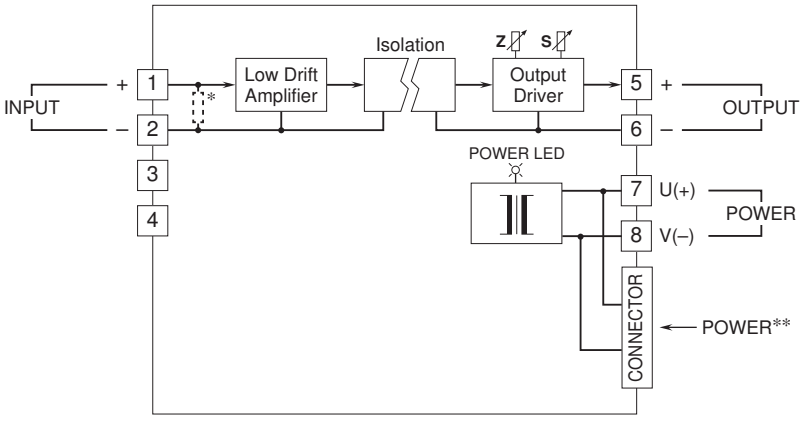


## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]




• 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.