MODEL: M6DVF

Euro Terminal Ultra-Slim Signal Conditioners M6D Series

SIGNAL TRANSMITTER

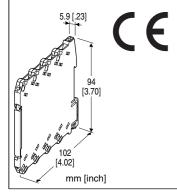
(high-accuracy, ultra-high speed response 30 µsec.)

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
- 30-microsecond response
- Frequency characteristics 12 kHz (-3 dB)
- · High-density mounting
- Power indicator LED

Typical Applications

- · Isolation for a vibration analyzing system
- Isolation for Discharge/Charge tester



MODEL: M6DVF-[1]4W-R[2]

ORDERING INFORMATION

• Code number: M6DVF-[1]4W-R[2]

Specify a code from below for each of [1] and [2].

(e.g. M6DVF-04W-R/Q)

- Special input range (For code 0: e.g. -164 +164 mV DC)
- Specify the specification for option code /Q (e.g. /C01)

[1] INPUT

Voltage

2W: -100 – +100 mV DC (Input resistance 1 M Ω min.)

4W: -10 - +10 V DC (Input resistance 1 M Ω min.)

5W: -5 - +5 V DC (Input resistance 1 M Ω min.)

8W: -20 - +20 V DC (Input resistance 1 M Ω min.)

0: Specify voltage

(Select input range as indicated below. Input resistance 1 $\mbox{M}\Omega$ min.)

-20 - +20 mV DC

-24 - +24 mV DC

-40 - +40 mV DC

-85 - +85 mV DC

-164 - +164 mV DC

-200 - +200 mV DC

-15 - +15 V DC

-25 - +25 V DC

-55 - +55 V DC

-60 - +60 V DC

OUTPUT

Voltage

4W: -10 - +10 V DC (Load resistance 2000 Ω min.)

POWER INPUT

DC Power

R: 24 V DC

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

[2] OPTIONS

blank: none

/Q: With options (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)

or Euro terminal (torque 0.3 N·m)

Applicable wire size: 0.2 to 2.5 mm², stripped length 8 mm

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power
Overrange input: -5 to +105 %
Zero adjustment: -1 to +1 % (front)
Span adjustment: 99 to 101 % (front)

Power indicator LED: Green LED turns on when the power is

supplied.

INPUT SPECIFICATIONS

Input resistance: 1 M Ω min. (3 k Ω min. at power loss)

OUTPUT SPECIFICATIONS

Parallel load capacitance: Max. 2000 pF

INSTALLATION

Power consumption: Approx. 0.6 W

Operating temperature: -20 to +55°C (-4 to +131°F)

M6DVF SPECIFICATIONS

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MODEL: M6DVF

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: ±0.01 %

Temp. coefficient: $\pm 0.005 \%/^{\circ}C (\pm 0.003 \%/^{\circ}F)$ Frequency characteristics: 12 kHz, -3 dB Response time: $\leq 30 \mu sec. (0 - 90 \%)$

Line voltage effect: ± 0.01 % over voltage range Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC

Dielectric strength: 2000 V AC @1 minute (input to output

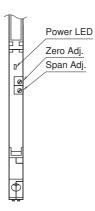
to power to ground)

STANDARDS & APPROVALS

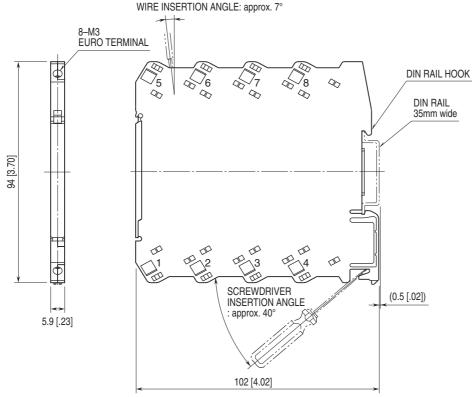
EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive

EXTERNAL VIEW

(With the cover open)

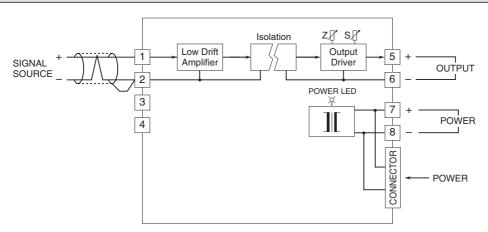


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



This unit, by its fast-response feature, is not designed to eliminate noise present in the input signal. Use a shielded twisted-pair cable to prevent noise from entering through the input wiring.

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Specifications are subject to change without notice.