

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

**ISOLATOR**

MODEL **M6DYV**

**MODEL & SUFFIX CODE SELECTION**

M6DYV-□□-R□

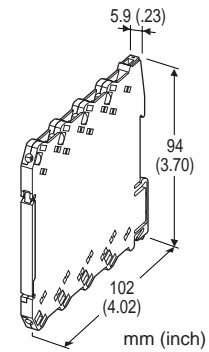
MODEL \_\_\_\_\_  
 INPUT / OUTPUT \_\_\_\_\_  
**AA** : 4 – 20mA DC / 4 – 20mA DC  
**A6** : 4 – 20mA DC / 1 – 5V DC  
**6A** : 1 – 5V DC / 4 – 20mA DC  
**66** : 1 – 5V DC / 1 – 5V DC  
**4W4W** : -10 – +10V DC / -10 – + 10V DC  
**POWER INPUT** \_\_\_\_\_  
**R** : 24V DC  
**OPTIONS** \_\_\_\_\_  
**/K** : Fast response

**ORDERING INFORMATION**

Specify code number. (e.g. M6DYV-4W4W-R/K)

**GENERAL SPECIFICATIONS**

**Connection:** Euro terminal (torque 0.3 N·m)  
**Applicable wire size:** 0.2 to 2.5 mm<sup>2</sup>  
**Housing material:** Flame-resistant resin (black)  
**Isolation:** Input to output to power  
**Zero\* & span adjustments:** ±2% (front)  
**Power LED:** Green light turns on when the power is supplied.  
 \*Output code 4W: Adjustable at 0V.



**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

**INPUT & OUTPUT**

**INPUT**

- **DC Current:** 4 – 20mA DC; 50Ω input resistor incorporated
- **DC Voltage:** 1 – 5V or -10 – +10V DC
- Input resistance:** 1MΩ minimum

**OUTPUT**

- **DC Current:** 4 – 20mA DC
- Load resistance:** 550Ω maximum
- **DC Voltage:** 1 – 5V or -10 – +10V DC
- Load resistance**

Output	Load Resistance
1 – 5V	: 5000 (Ω minimum)
-10 – +10V	: 20k

**INSTALLATION**

**Power input:** Operational voltage range 24V DC  $\pm 10\%$ , approx. 0.45W; ripple 10% p-p max.

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

**Operating humidity:** 30 to 90% RH (non-condensing)

**Mounting:** DIN rail

**Dimensions:** W5.9×H94×D102 mm (0.23"×3.70"×4.02")  
See General Spec. Sheet Figure A-1.

**Weight:** 60 g (2.1 oz)

**Terminal assignment:** See General Spec. Sheet Figure A-1.

**PERFORMANCE**

**Accuracy:**  $\pm 0.1\%$

**Temp. coefficient:**  $\pm 0.01\%/^{\circ}\text{C}$  ( $\pm 0.006\%/^{\circ}\text{F}$ )

**Response time:**  $\leq 0.5$  seconds (0 – 90%)

Approx. 3.5 msec. w/ option /K, voltage output

Approx. 25 msec. w/ option /K, current output

**Line voltage effect:**  $\pm 0.1\%$  over voltage range

**Insulation resistance:**  $\geq 100\text{M}\Omega$  with 500V DC

**Dielectric strength:** 2000V AC @1 minute

(input to output to power to ground)

**STANDARDS & APPROVALS**

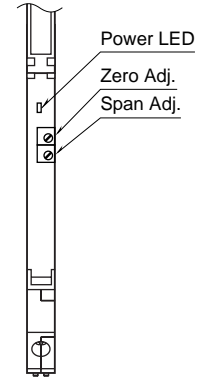
**CE conformity:** EMC Directive (89/336/EEC)

EMI EN61000-6-4

EMS EN61000-6-2

**FRONT PANEL CONFIGURATION**

(With the cover open)

**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**