

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

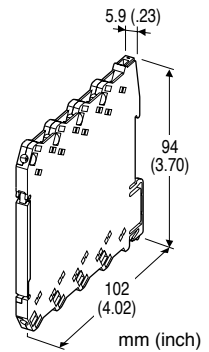
4W4W : -10 – +10V DC / -10 – +10V DC

POWER INPUT _____

R : 24V DC

OPTIONS _____

/K : Fast response



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

ORDERING INFORMATION

Specify code number and variables.

- 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 mm²

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.

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

- (Range) 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 in percentage of span

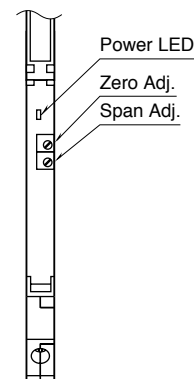
Accuracy: $\pm 0.1\%$
Temp. coefficient: $\pm 0.01\%/^{\circ}\text{C}$ ($\pm 0.006\%/^{\circ}\text{F}$)
Response time: ≤ 0.5 second (0 – 90%)
 Approx. 3.5 msec. w/ option /K, voltage output
 Approx. 25 msec. w/ option /K, current output
Line voltage effect: $\pm 0.1\%$ over voltage range
Insulation resistance: $\geq 100\text{M}\Omega$ with 500V DC
Dielectric strength: 2000V AC @1 minute
 (input to output to power to ground)

STANDARDS & APPROVALS

CE conformity: EMC Directive (2004/108/EC)
 EN 61000-6-4 (EMI)
 EN 61000-6-2 (EMS)

FRONT VIEW

(With the cover open)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

