Euro Terminal Ultra-Slim Signal Conditioners *M6D Series*

SIGNAL TRANSMITTER
(two isolated outputs)

MODEL **M6DWVS**

MODEL & SUFFIX CODE SELECTION

M6DWVS–❑❑❑–R❑

MODEL

INPUT

Current	Voltage
A : 4 – 20mA DC	**3** : 0 – 1V DC
B : 2 – 10mA DC	**4** : 0 – 10V DC
C : 1 – 5mA DC	**5** : 0 – 5V DC
D : 0 – 20mA DC	**6** : 1 – 5V DC
E : 0 – 16mA DC	**4W** : -10 – +10V DC
F : 0 – 10mA DC	**5W** : -5 – +5V DC
G : 0 – 1mA DC	**0** : Specify voltage
H : 10 – 50mA DC	
Z : Specify current	

OUTPUT 1

Current	Voltage
A : 4 – 20mA DC	**5** : 0 – 5V DC
D : 0 – 20mA DC	**6** : 1 – 5V DC

OUTPUT 2

Same range availability as Output 1

Y : None

POWER INPUT

R : 24V DC

OPTIONS

/K : Fast response

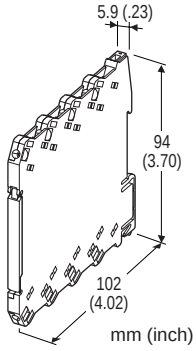
ORDERING INFORMATION

Specify code number and variables.

- **Code number** (e.g. M6DWVS-AAA-R/K)
- **Special input range** (For codes Z & 0)

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 1 to output 2 to power
Zero & span adjustments: ±2% (front)
Power LED: Green light turns on when the power is supplied



ISOLATION

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**: Input resistor incorporated

Input resistance: For resistance values other than listed below, specify when ordering.
($R \leq 0.125W \div [\text{F.S. Current}]^2$)

Input	Input Resistance
4 – 20mA	: 50 (Ω)
2 – 10mA	: 100
1 – 5mA	: 200
0 – 20mA	: 50
0 – 16mA	: 50
0 – 10mA	: 100
0 – 1mA	: 1000
10 – 50mA	: 20

- **DC Voltage**: -30 – +30V DC

Spans: Min. 100mV, Max. 30V
Zero suppression/elevation: Max. 1.5 times span
Input resistance: 1MΩ minimum (10kΩ minimum with no power supplied)

■**OUTPUTS (two)**

•**DC Current**

Load resistance

Output	Load Resistance
4 – 20mA	: 280 (Ω maximum)
0 – 20mA	: 280

•**DC Voltage**

Load resistance

Output	Load Resistance
0 – 5V	: 5000 (Ω minimum)
1 – 5V	: 5000

INSTALLATION

Power input: Operational voltage range 24V DC ±10%, approx. 0.6W; 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

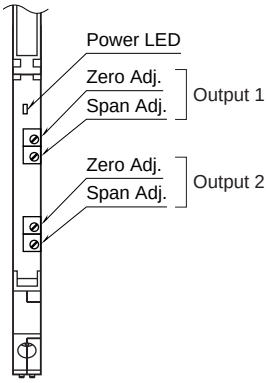
Accuracy: ±0.1%
Temp. coefficient: ±0.01%/°C (±0.006%/°F)
Response time: ≤0.5 seconds (0 – 90%)
Approx. 3.5 milliseconds with option /K
Line voltage effect: ±0.1% over voltage range
Insulation resistance: ≥100MΩ with 500V DC
Dielectric strength: 2000V AC @1 minute (input to output 1 to output 2 to power to ground)

STANDARDS & APPROVALS

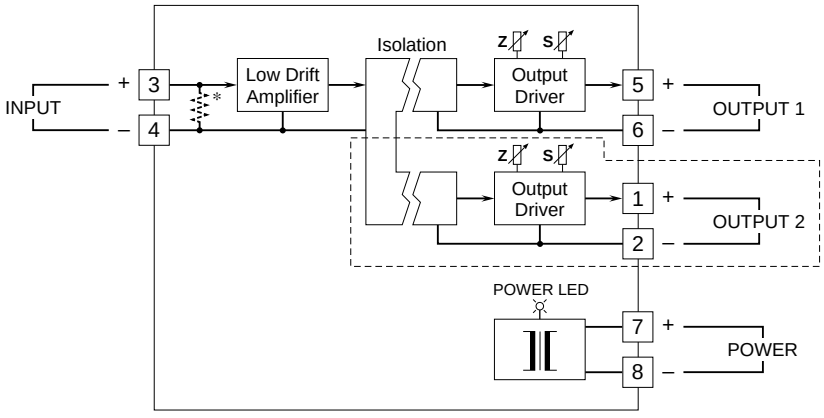
CE conformity: EMC Directive (89/336/EEC)
EMI EN61000-6-4
EMS EN61000-6-2

FRONT PANEL CONFIGURATION

(With the cover open)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*Input shunt resistor incorporated for current input.
Remark: The section enclosed by broken line is only with 2nd output option.