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

**SIGNAL TRANSMITTER**
(two isolated outputs)

**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: M6DWVS-[1][2][3]-R[4]**

**ORDERING INFORMATION**
- Code number: M6DWVS-[1][2][3]-R[4]
  - Specify a code from below for each [1] through [4].
    (e.g. M6DWVS-AAA-R/K/UL/Q)
- Special input range (For codes Z & 0)
  - Specify the specification for option code /Q
    (e.g. /C01)

**[1] INPUT**

**Current**
- A: 4 - 20 mA DC (Input resistance 50 Ω)
- B: 2 - 10 mA DC (Input resistance 100 Ω)
- C: 1 - 5 mA DC (Input resistance 200 Ω)
- D: 0 - 20 mA DC (Input resistance 50 Ω)
- E: 0 - 16 mA DC (Input resistance 50 Ω)
- F: 0 - 10 mA DC (Input resistance 100 Ω)
- G: 0 - 1 mA DC (Input resistance 1000 Ω)
- H: 10 - 50 mA DC (Input resistance 20 Ω)
- Z: Specify current (See INPUT SPECIFICATIONS)

**Voltage**
- 3: 0 - 1 V DC (Input resistance 1 MΩ min.)
- 4: 0 - 10 V DC (Input resistance 1 MΩ min.)
- 5: 0 - 5 V DC (Input resistance 1 MΩ min.)
- 6: 1 - 5 V DC (Input resistance 1 MΩ min.)

**[2] OUTPUT 1**

**Current**
- A: 4 - 20 mA DC (Load resistance 280 Ω max.)
- D: 0 - 20 mA DC (Load resistance 280 Ω max.)

**Voltage**
- 5: 0 - 5 V DC (Load resistance 5000 Ω min.)
- 6: 1 - 5 V DC (Load resistance 5000 Ω min.)

**[3] OUTPUT 2**

Same range availability as Output 1
- Y: None

**POWER INPUT**

**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.)

**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: M6DB5) 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 1 to output 2 to power
- Zero adjustment: -2 to +2 % (front)
- Span adjustment: 98 to 102 % (front)
- Power LED: Green light turns on when the power is supplied.
**INPUT SPECIFICATIONS**

- **DC Current**: Input resistor incorporated
  - Specify input resistance value among followings for code Z.
    - 200Ω, 500Ω, 1000Ω, 2000Ω, 2490Ω, 10000Ω
  - \(0.125 \text{ W} \geq (\text{Input current})^2 \times R\)
- **DC Voltage**: -30 to +30 V DC
- **Minimum span**: 100 mV
- **Offset**: Max. 1.5 times span
- **Input resistance**: 1 MΩ min. (10 kΩ min. with no power supplied)

**INSTALLATION**

- **Power consumption**: Approx. 0.6 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
- **Insulation resistance**: ≥ 100 MΩ with 500 V DC
- **Dielectric strength**: 2000 V AC @1 minute (input to output 1 to output 2 to power to ground)

**STANDARDS & APPROVALS**

- **EU conformity**:
  - EMC Directive
  - EMI EN 61000-6-4
  - EMS EN 61000-6-2
- **RoHS Directive**: EN 50581
- **Approval**:
  - UL/C-UL nonincendive Class I, Division 2, Groups A, B, C, and D hazardous locations
    (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.
Low Drift Amplifier

Input shunt resistor incorporated for current input.

Remark: The section enclosed by broken line is only with 2nd output option.

⚠ Specifications are subject to change without notice.