

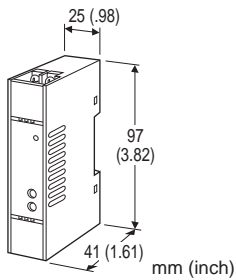
Super-mini Terminal Block Signal Conditioners M5-UNIT

SIGNAL TRANSMITTER

(high speed response 30 μ sec.)

Functions & Features

- Converts a DC input into an isolated DC signal
- Ultra-high speed response 30 μ sec.
- High-density mounting
- Power LED



MODEL: M5VF2-[1][2]-R[3]

ORDERING INFORMATION

- Code number: M5VF2-[1][2]-R[3]
- Specify a code from below for each [1] through [3].
(e.g. M5VF2-4W4W-R/Q)
- Specify the specification for option code /Q
(e.g. /C01/V01)

[1] INPUT

Voltage

- 4: 0 - 10 V DC (Input resistance 1 M Ω min.)
- 5: 0 - 5 V DC (Input resistance 1 M Ω min.)
- 6: 1 - 5 V 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.)

[2] OUTPUT

Voltage

- 4: 0 - 10 V DC (Load resistance 5000 Ω min.)
- 5: 0 - 5 V DC (Load resistance 2500 Ω min.)
- 6: 1 - 5 V DC (Load resistance 2500 Ω min.)
- 4W: -10 - +10 V DC (Load resistance 5000 Ω min.)
- 5W: -5 - +5 V DC (Load resistance 2500 Ω min.)

POWER INPUT

DC Power

R: 24 V DC
(Operational voltage range 24 V \pm 10 %, ripple 10 %p-p max.)

[3] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

- /C01: Silicone coating
- /C02: Polyurethane coating
- /C03: Rubber coating

ADJUSTMENT

/V01: Multi-turn fine adjustment

GENERAL SPECIFICATIONS

Construction: Terminal block
Connection: M3.5 screw terminals (torque 0.8 N·m)
Screw terminal: Nickel-plated steel
Housing material: Flame-resistant resin (black)
Isolation: Input to output to power
Zero adjustment: -3 - +3 % (front)
Span adjustment: 97 - 103 % (front)
Power LED: Green light turns on when the power is supplied.

INPUT SPECIFICATIONS

- DC Voltage
- Input resistance: 1 M Ω min.

OUTPUT SPECIFICATIONS

- DC Voltage
- Parallel load capacitance: \leq 2000 pF

INSTALLATION

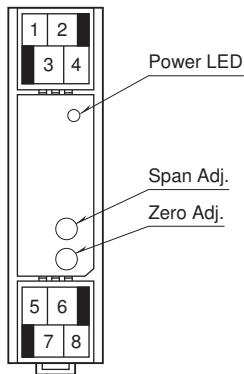
Power consumption
 • DC Power input: \leq 1.0 W
Operating temperature: -5 to +55 $^{\circ}$ C (23 to 131 $^{\circ}$ F)
Operating humidity: 5 to 90 %RH (non-condensing)
Mounting: DIN rail
Weight: 80 g (2.8 oz)

PERFORMANCE in percentage of span

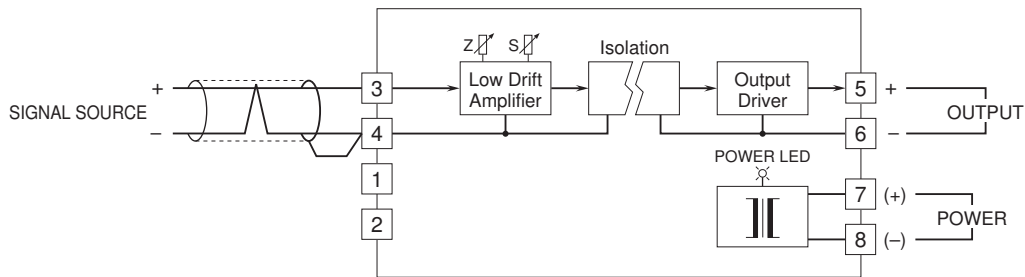
Accuracy: \pm 0.1 %
Temp. coefficient: \pm 0.015 %/ $^{\circ}$ C (\pm 0.008 %/ $^{\circ}$ F)
Frequency characteristics: 12 kHz, -3 dB
Response time: Approx. 30 μ sec. (0 - 90 %)
Line voltage effect: \pm 0.1 % over voltage range
Insulation resistance: \geq 100 M Ω with 500 V DC
Dielectric strength: 2000 V AC @1 minute
 (input or output to power to ground)
 1500 V AC @1 minute (input to output)



EXTERNAL VIEW



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 for preventing noise entering through the input wiring.



Specifications are subject to change without notice.

