MODEL: M5VF2

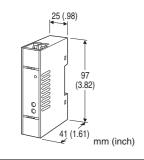
Super-mini Terminal Block Signal Conditioners M5-UNIT

SIGNAL TRANSMITTER

(high speed response 30µsec.)

Functions & Features

- · Converts a DC input into an isolated DC signal
- Ultra-high speed response 30 μsec.
- · 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/S01)

[1] INPUT

Voltage

4: 0 - 10 V DC (Input resistance $1 \text{ M}\Omega$ min.)

5: $0 - 5 \text{ V DC (Input resistance 1 M}\Omega \text{ min.)}$

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: $0 - 5 \text{ V DC (Load resistance } 2500 \Omega \text{ min.)}$

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 ± 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 TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Terminal block

Connection: M3.5 screw terminals (torque 0.8 N·m)

Screw terminal: Nickel-plated steel (standard) or stainless

stee

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power

Overrange output: Approx. -10 to +110 % at 1 - 5 V

Zero adjustment: -3 - +3 % (front) Span adjustment: 97 - 103 % (front)

Power LED: Green LED turns on when the power is supplied.

INPUT SPECIFICATIONS

DC Voltage

Input resistance: 1 M Ω min.

OUTPUT SPECIFICATIONS

■ DC Voltage

Parallel load capacitance: ≤ 2000 pF

INSTALLATION

Power consumption

•**DC**: ≤ 1.0 W

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 5 to 90 %RH (non-condensing)

Mounting: DIN rail **Weight**: 80 g (2.8 oz)



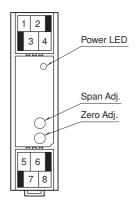
MODEL: M5VF2

PERFORMANCE in percentage of span

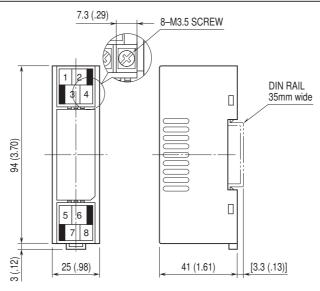
Accuracy: ±0.1 %

Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F) Frequency characteristics: 12 kHz, -3 dB Response time: Approx. 30 μsec. (0 – 90 %) Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 MΩ 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



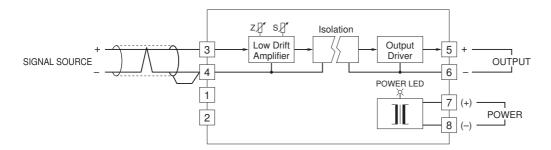
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



• When mounting, no extra space is needed between units.

MODEL: M5VF2

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.