MODEL: M6NVF

#### Screw Terminal Ultra-Slim Signal Conditioners M6N Series

### SIGNAL TRANSMITTER

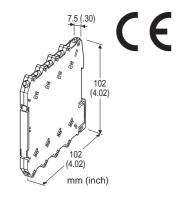
(high-accuracy, ultra-high speed response 30 µsec.)

#### **Functions & Features**

- 7.5-mm wide ultra-slim design
- Low profile allows the M6N module mounted in a 120-mm deep panel
- Galvanically isolates process instrumentation signals
- 30-microsecond response
- Frequency characteristics 12 kHz (-3 dB)
- High-density mounting
- Power indicator LED

#### Typical Applications

- · Isolation for a vibration analyzing system
- · Isolation for Discharge/Charge tester



MODEL: M6NVF-[1]4W-R

# ORDERING INFORMATION

- Code number: M6NVF-[1]4W-R Specify a code from below for [1]. (e.g. M6NVF-04W-R)
- Special input range (For codes 0: e.g. -164 +164 mV DC)

## [1] INPUT

## **Voltage**

**2W**: -100 - +100 mV DC (Input resistance 1 M $\Omega$  min.)

**4W**: -10 - +10 V DC (Input resistance 1 M $\Omega$  min.)

**5W**: -5 - +5 V DC (Input resistance 1 M $\Omega$  min.)

**8W**: -20 - +20 V DC (Input resistance 1 M $\Omega$  min.)

0: Specify voltage

(Select input range as indicated below. Input resistance 1 M $\Omega$  min.)

-20 - +20 mV DC

-24 - +24 mV DC

-40 - +40 mV DC

-85 - +85 mV DC

- -164 +164 mV DC
- -200 +200 mV DC

-15 - +15 V DC

-25 - +25 V DC

-55 - +55 V DC

-60 - +60 V DC

### OUTPUT

### Voltage

**4W**: -10 - +10 V DC (Load resistance 2000  $\Omega$  min.)

### **POWER INPUT**

#### **DC Power**

R: 24 V DC

(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

### **GENERAL SPECIFICATIONS**

#### Connection

Input and output: M3 screw terminal (torque 0.5 N·m) **Power input**: Via the Installation Base (model: M6NBS)

or M3 screw terminal (torque 0.5 N·m)

Recommended solderless terminal: Max. 5.8 mm (0.23")

wide; Ones with insulation sleeve do not fit.

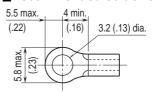
Applicable wire size 0.2 - 2.5 mm<sup>2</sup>

Housing material: Flame-resistant resin (black)

**Isolation**: Input to output to power Overrange input: -5 to +105% **Zero adjustment**: -1 to +1 % (front)) Span adjustment: 99 to 101 % (front)

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

#### ■Recommended solderless terminal



# INPUT SPECIFICATIONS

**Input resistance**: 1 M $\Omega$  min. (3 k $\Omega$  min. at power loss)

## **OUTPUT SPECIFICATIONS**

Parallel load capacitance: Max. 2000 pF

#### 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: M6NBS) or DIN rail

Weight: 60 g (2.1 oz)



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# **PERFORMANCE** in percentage of span

Accuracy: ±0.01 %

Temp. coefficient:  $\pm 0.005 \%/^{\circ}C (\pm 0.003 \%/^{\circ}F)$ Frequency characteristics: 12 kHz, -3 dB Response time:  $\leq 30 \mu sec. (0 - 90 \%)$ 

Line voltage effect:  $\pm 0.01$  % over voltage range Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC

Dielectric strength: 2000 V AC @1 minute (input to output

to power to ground)

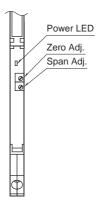
## **STANDARDS & APPROVALS**

CE conformity:

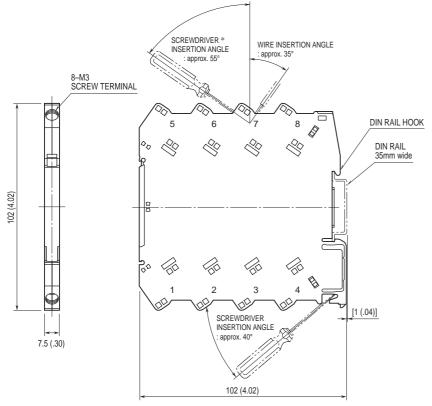
EMC Directive (2004/108/EC) EN 61000-6-4 (EMI) EN 61000-6-2 (EMS)

## **EXTERNAL VIEW**

(With the cover open)

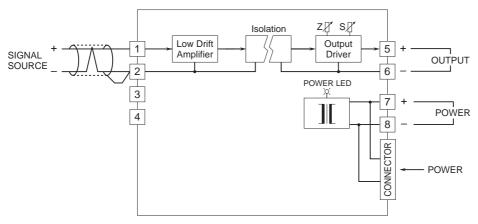


# **DIMENSIONS** unit: mm (inch)



<sup>\*</sup>Screwdriver stem diameter: 6 mm (.24") or less

# **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 to prevent noise from entering through the input wiring.



Specifications are subject to change without notice.

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<sup>•</sup> When mounting, no extra space is needed between units.