

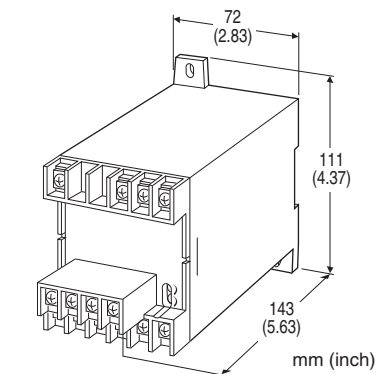
Plug-in Signal Conditioners M-UNIT

SIGNAL TRANSMITTER

(high dielectric strength)

Functions & Features

- Up to 5 kV isolation between input to output or power input
- Terminal cover
- PWB coating



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

ORDERING INFORMATION

- Code number: SVFH-[1][2]-R[3]
- Specify a code from below for each [1] through [3]. (e.g. SVFH-04W-R/Q)
- Input range (e.g. -600 - +600 V DC)
- Specify the specification for option code /Q (e.g. /C01)

[1] INPUT

Voltage

- 2W:** -100 - +100 mV DC (Input resistance 1 MΩ min.)
- 4W:** -10 - +10 V DC (Input resistance 1 MΩ min.)
- 5W:** -5 - +5 V DC (Input resistance 1 MΩ min.)
- 0:** Specify range (Please specify from the following input range.)
 - -20 - +20 mV DC
 - -40 - +40 mV DC
 - -200 - +200 mV DC
 - -250 - +250 V DC
 - -500 - +500 V DC
 - -600 - +600 V DC
 - -700 - +700 V DC
 - -1000 - +1000 V DC
 - -1250 - +1250 V DC
 - -1300 - +1300 V DC
 - -1500 - +1500 V DC
 - -2000 - +2000 V DC (CE not available)

[2] OUTPUT

Current

- A:** 4 - 20 mA DC (Load resistance 750 Ω max.)
- D:** 0 - 20 mA DC (Load resistance 750 Ω max.)

Voltage

- 3:** 0 - 1 V DC (Load resistance 1000 Ω min.)
- 4:** 0 - 10 V DC (Load resistance 10 kΩ min.)
- 5:** 0 - 5 V DC (Load resistance 5000 Ω min.)
- 6:** 1 - 5 V DC (Load resistance 5000 Ω min.)
- 4W:** -10 - +10 V DC (Load resistance 10 kΩ min.)
- 5W:** -5 - +5 V DC (Load resistance 5000 Ω min.)
- 7W:** -7.5 - +7.5 V DC (Load resistance 7.5 kΩ 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

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

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

GENERAL SPECIFICATIONS

- Connection:** M4 screw terminals (torque 1.2 N·m)
- Screw terminal:** Chrome-plated steel
- Housing material:** Flame-resistant resin (black)
- Isolation:** Input to output to power
- Overrange input:** -5 to +105 % (±2000V DC max.)
- Zero adjustment:** -0.2 to +0.2 % (front)
- Span adjustment:** 99.8 to 100.2 % (front)

INPUT SPECIFICATIONS

■ DC Voltage

- Input resistance:** 1 MΩ min. (10 kΩ min. at loss of power)
- Overload input 1000% 3 min.** (±2000V DC max.)
- Overload input 300% 5 min.** (±2000V DC max.)

INSTALLATION

Power consumption

- **DC:** ≤ 3 W
- Operating temperature:** -10 to +60°C (14 to 140°F)
- Operating humidity:** 30 to 90 %RH (non-condensing)
- Mounting:** Surface or DIN rail



Weight: 450 g (0.99 lb)

PERFORMANCE in percentage of span

Accuracy: $\pm 0.1\%$

Temp. coefficient: $\pm 0.015\%/^{\circ}\text{C}$ ($\pm 0.008\%/^{\circ}\text{F}$)

Response time: ≤ 4 msec. (0 - 90 %)

Line voltage effect: $\pm 0.1\%$ over voltage range

Insulation resistance: $\geq 100\text{ M}\Omega$ with 500 V DC

Dielectric strength: 5000 V AC @ 1 minute (input to output or power or ground)

2000 V AC @ 1 minute (output to power to ground)

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007/A1: 2011

EMS EN 61000-6-2: 2005

Low Voltage Directive (2006/95/EC)

EN 61010-1: 2010

Power

Installation Category II

Pollution degree 2

Input or output to power: Reinforced insulation

Input signal

Measurement Category I

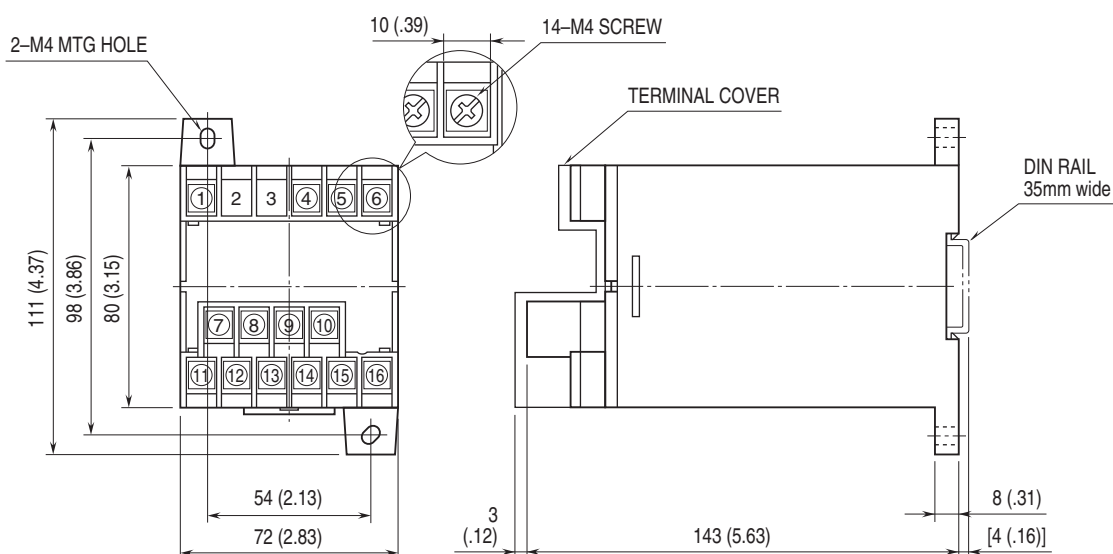
Pollution degree 2

Between input terminal (1500 V)

* Input range higher than 1500 V DC is exempted from low voltage directive.

IEC 61010-1: 2010

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

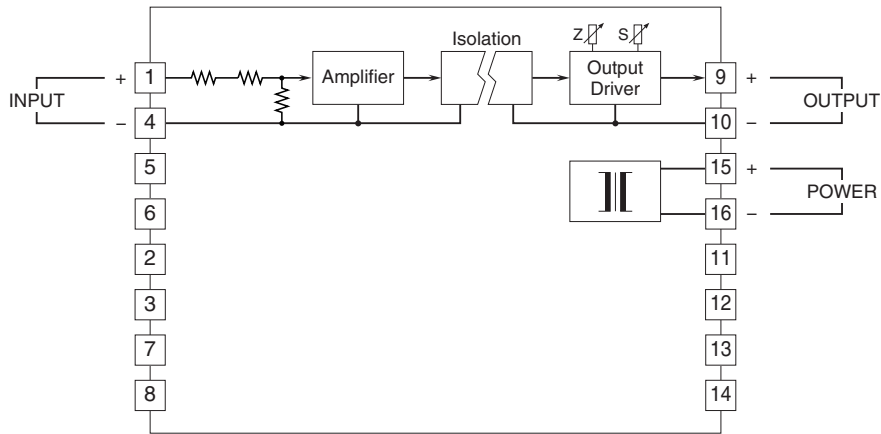


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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.

