

Space-saving Plug-in Signal Conditioners H-UNIT

SQUARE ROOT EXTRACTOR

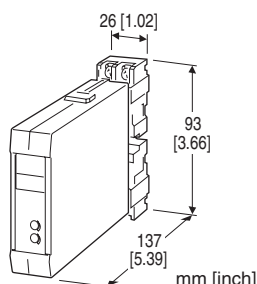
(non-isolated)

Functions & Features

- Providing a DC output proportional to the root of input signal
- Low-end cutout
- High-density mounting

Typical Applications

- Converting differential pressure to flow



MODEL: HN-[1]6-R[2]

ORDERING INFORMATION

- Code number: HN-[1]6-R[2]

Specify a code from below for each of [1] and [2].

- (e.g. HN-66-R/Q)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] INPUT

Current

A: 4 – 20 mA DC (Input resistance 250 Ω)B: 2 – 10 mA DC (Input resistance 500 Ω)C: 1 – 5 mA DC (Input resistance 1000 Ω)H: 10 – 50 mA DC (Input resistance 100 Ω)

Voltage

6: 1 – 5 V DC (Input resistance 100 k Ω min.)

OUTPUT

Voltage

6: 1 – 5 V DC (Load resistance 10 k Ω min.)

POWER INPUT

DC Power

R: 24 V DC

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

[2] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

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

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

Housing material: Flame-resistant resin (black)

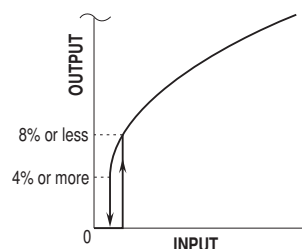
Isolation: Input or output to power

Overrange output: 0 – 105 % at 1 – 5 V

Zero adjustment: -5 to +5 % (front)

Span adjustment: 95 to 105 % (front)

Low-end cutout: Approx. 4 – 8 % (output)



INPUT SPECIFICATIONS

■ DC Current:

Shunt resistor attached to the input terminals (0.5 W)

INSTALLATION

Current consumption: Approx. 60 mA

Operating temperature: -5 to +55°C (23 to 131°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail; Standard Rack Mounting

Frame BX-16H available

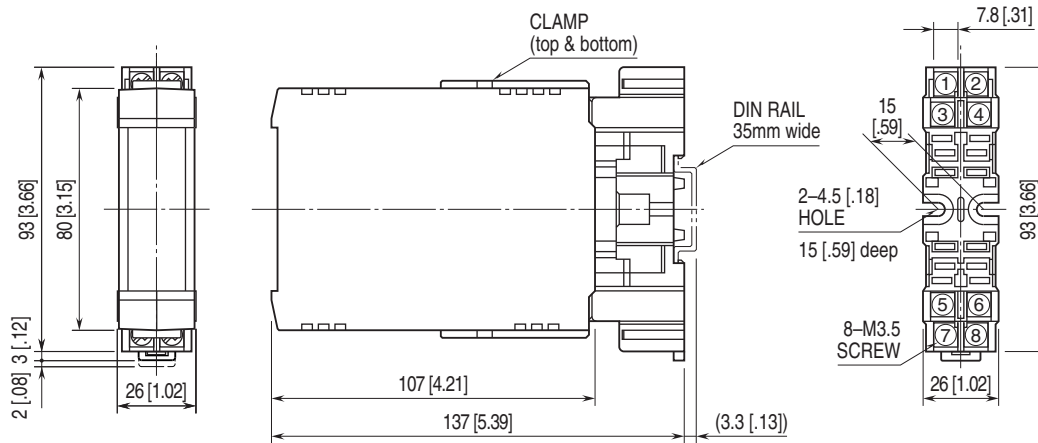
Weight: 200 g (0.44 lb)

PERFORMANCE in percentage of span

Accuracy: \pm 0.1 % (input 1 – 100 %)Temp. coefficient: \pm 0.015 %/°C (\pm 0.008 %/°F)Response time: \leq 0.5 sec. (0 – 90 %)Line voltage effect: \pm 0.1 % over voltage rangeInsulation resistance: \geq 100 M Ω with 500 V DC

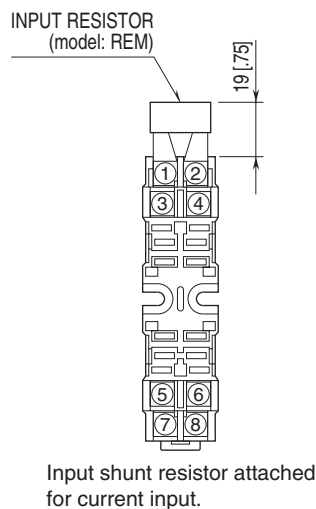
Dielectric strength: 500 V AC @ 1 minute (input or output to power)
1500 V AC @ 1 minute (input or output or power to ground)

EXTERNAL DIMENSIONS unit: mm [inch]

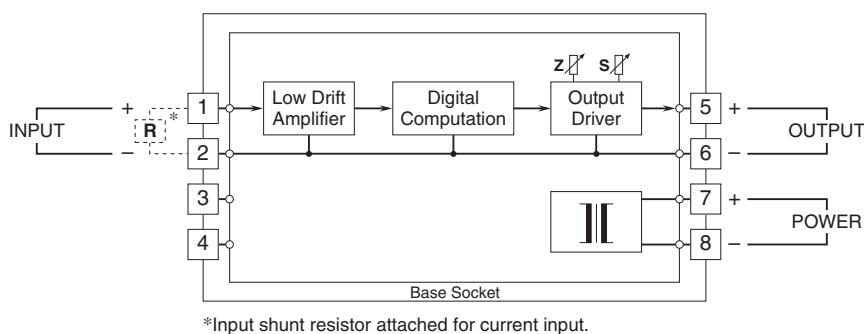


•When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.