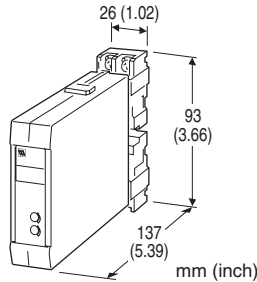


Space-saving Plug-in Signal Conditioners H-UNIT

LINEAR POSITION TRANSMITTER

Functions & Features

- Signal conditioner of slim plug-in construction with differential transformer (VL-1)



MODEL: HVL-1[1]-R

ORDERING INFORMATION

- Code number: HVL-1[1]-R
- Specify a code from below for [1].
(e.g. HVL-14W-R)

[1] OUTPUT

Current

- A: 4 - 20 mA DC (Load resistance 750 Ω max.)
- B: 2 - 10 mA DC (Load resistance 1500 Ω max.)
- C: 1 - 5 mA DC (Load resistance 3000 Ω max.)
- D: 0 - 20 mA DC (Load resistance 750 Ω max.)
- E: 0 - 16 mA DC (Load resistance 900 Ω max.)
- F: 0 - 10 mA DC (Load resistance 1500 Ω max.)
- G: 0 - 1 mA DC (Load resistance 15 k Ω max.)

Voltage

- 1: 0 - 10 mV DC (Load resistance 10 k Ω min.)
- 2: 0 - 100 mV DC (Load resistance 100 k Ω min.)
- 3: 0 - 1 V DC (Load resistance 1000 Ω min.)
- 4: 0 - 10 V DC (Load resistance 10 k Ω 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 k Ω min.)

POWER INPUT

DC Power

R: 24 V DC

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

GENERAL SPECIFICATIONS

- Construction: Plug-in
- 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: -5 to +5 % (front)
- Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Input signal: Differential transformer (VL-1)

INSTALLATION

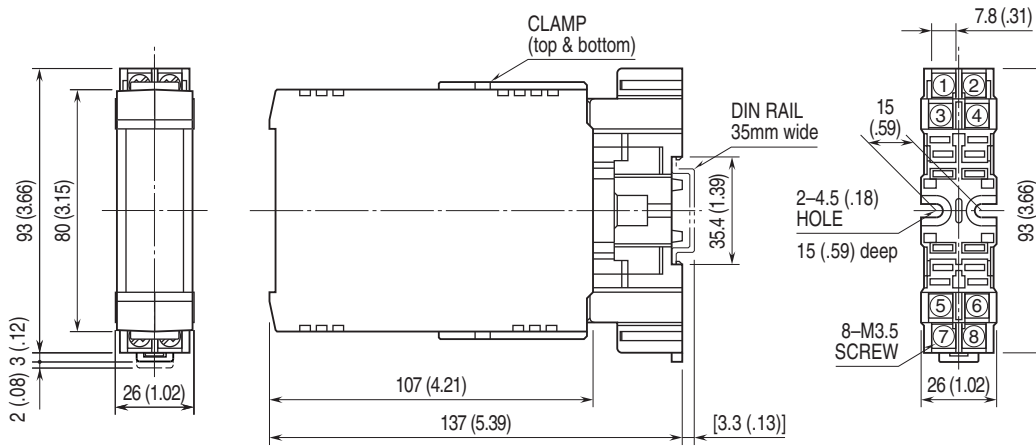
- Power consumption: Approx. 80 mA
- Operating temperature: -5 to +55°C (23 to 131°F)
- Operating humidity: 30 to 90 %RH (non-condensing)
- Mounting: Surface or DIN rail; Standard Rack Mounting
- Frame BX-16H available
- Weight: 200 g (0.44 lb)

PERFORMANCE in percentage of span

- Accuracy: \pm 0.1 %
- 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 range
- Insulation resistance: \geq 100 M Ω with 500 V DC
- Dielectric strength: 500 V AC @1 minute (input to output to power)
- 1500 V AC @1 minute (input or output or power to ground)

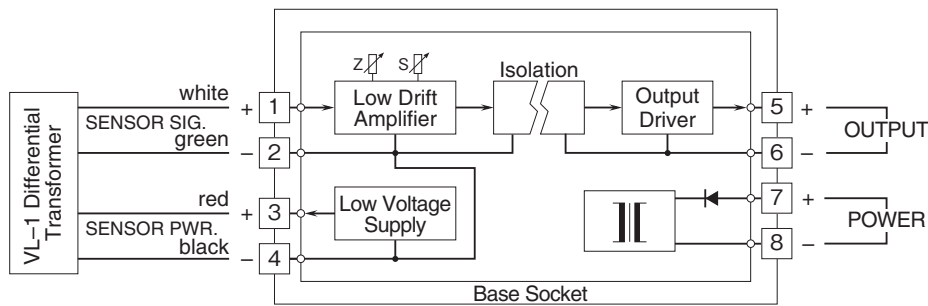


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.