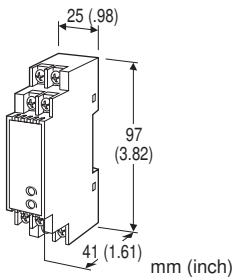


Super-mini Two-wire Terminal Block Signal Conditioners B5-UNIT

INPUT LOOP POWERED ISOLATOR

Functions & Features

- Input-loop-powered design eliminates need for an output loop power supply
- 350 Ω output drive
- High-density mounting
- CE marking



MODEL: B5SN-AA

ORDERING INFORMATION

- Code number: B5SN-AA

INPUT

Current

A: 4 - 20 mA DC

OUTPUT

Current

A: 4 - 20 mA DC

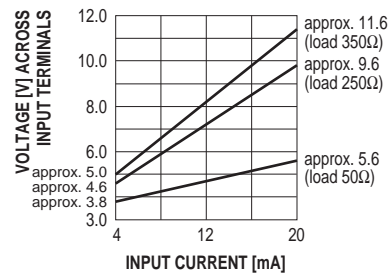
GENERAL SPECIFICATIONS

- Construction:** Terminal block
- 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
- Zero adjustment:** -0.5 to +0.5 % (front)
- Span adjustment:** 98.5 to 101.5 % (front)

INPUT & OUTPUT

- INPUT 4 - 20mA DC / OUTPUT 4 - 20mA DC
- Equivalent input impedance:** 230 Ω plus load resistance with 20mA input
- Operational range:** 3 - 22mA DC (Accuracy is assured within 4 - 22mA)
- Load resistance:** 350 Ω maximum; min. 50 Ω required for

adequate operation



INSTALLATION

- Operating temperature:** -5 to +55°C (23 to 131°F)
- Operating humidity:** 0 to 90 %RH (non-condensing)
- Mounting:** DIN rail
- Weight:** 60 g (2.1 oz)

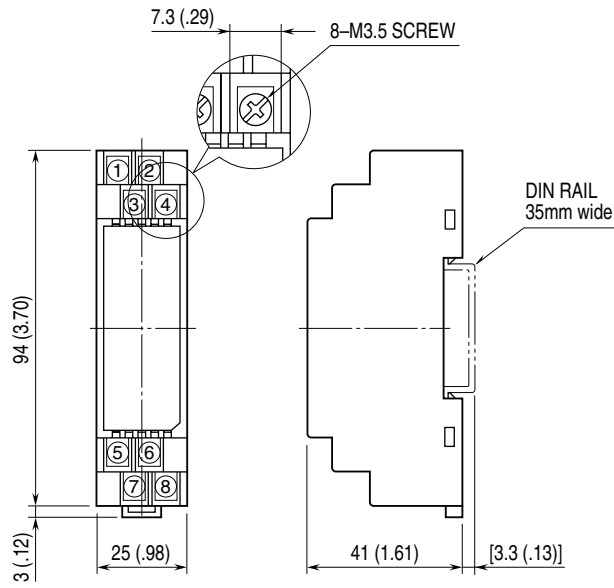
PERFORMANCE in percentage of span

- Accuracy:** ±0.1 %
- Temp. coefficient:** ±0.02 %/°C (±0.01 %/°F)
- Response time:** Approx. 15 msec. (0 - 90 %)
- Load effect:** (factory-calibrated with 250 Ω load)
 - 0.015 %/Ω (50 - 150 Ω)
 - 0.003 %/Ω (150 - 350 Ω)
- Insulation resistance:** ≥ 100 MΩ with 500 V DC
- Dielectric strength:**
 - 500 V AC @1 minute (input to output)
 - 2000 V AC @1 minute (input or output to ground)

STANDARDS & APPROVALS

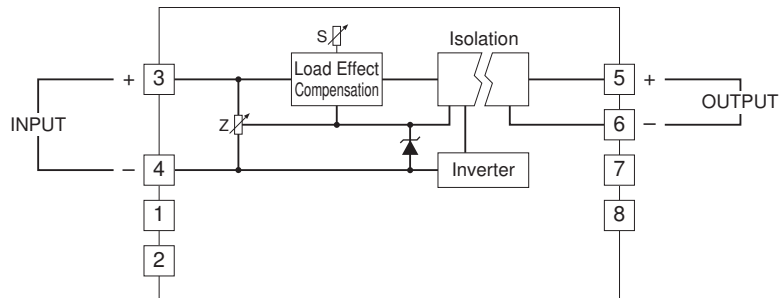
- CE conformity:**
 - EMC Directive (2004/108/EC)
 - EMI EN 61000-6-4: 2007
 - EMS EN 61000-6-2: 2005

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.