

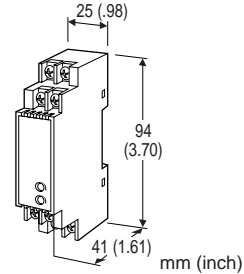
Super-mini Two-wire Terminal Block Signal Conditioners *B5-UNIT*

INPUT LOOP POWERED ISOLATOR

MODEL **B5SN**

MODEL & SUFFIX CODE SELECTION

MODEL _____ **B5SN-AA**
 INPUT _____
 A : 4 – 20mA DC
 OUTPUT _____
 A : 4 – 20mA DC



Functions & Features

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

ORDERING INFORMATION

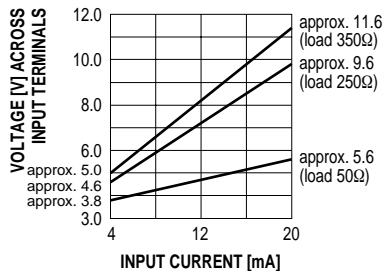
Specify code number. (e.g. B5SN-AA)

GENERAL SPECIFICATIONS

Construction: Terminal block
Connection: M3.5 screw terminals
 (nickel-plated steel; torque 0.8 N·m)
Housing material: Flame-resistant resin (black)
Isolation: Input to output
Front adjustments: ±0.5% for zero; ±1.5% for span

INPUT & OUTPUT

■ **INPUT 4 – 20mA DC / OUTPUT 4 – 20mA DC**
Equivalent input impedance: 230Ω plus load resistance with 20mA input
Operational range: 3 – 22mA DC
 (Accuracy is assured within 4 – 22mA)
Load resistance: 350Ω maximum; min. 50Ω 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
Dimensions: W25×H94×D41 mm (0.98"×3.70"×1.61")
 See General Spec. Sheet Figure A-1.
Weight: 60 g (2.1 oz.)
Terminal assignment: See General Spec. Sheet Figure B-1.

PERFORMANCE in percentage of span

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

STANDARDS & APPROVALS

CE conformity: EMC Directive (89/336/EEC)
 EMI EN61000-6-4
 EMS EN61000-6-2

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

