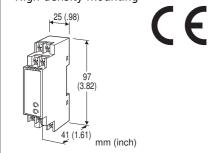
# Super-mini Two-wire Terminal Block Signal Conditioners B5-UNIT

#### **INPUT LOOP POWERED ISOLATOR**

#### **Functions & Features**

- Input-loop-powered design eliminates need for an output
- loop power supply
- 350  $\Omega$  output drive
- High-density mounting



# MODEL: B5SN-AA[1]

# **ORDERING INFORMATION**

• Code number: B5SN-AA[1] Specify a code from below for [1]. (e.g. B5SN-AA/Q)

• Specify the specification for option code /Q (e.g. /C01)

# INPUT

**Current A**: 4 – 20 mA DC

#### OUTPUT

Current

# **A**: 4 – 20 mA DC

# [1] 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**

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

# M M·SYSTEM CO., LTD.

http://www.m-system.co.jp/

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)

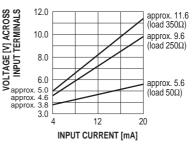
# **INPUT & OUTPUT**

• Input 4 – 20 mA DC / Output 4 – 20 mA DC Equivalent input impedance: 230  $\Omega$  plus load resistance with 20 mA input

Operational range: 3 – 22 mA DC

(Accuracy is assured within 4 - 22 mA)

Load resistance: 350  $\Omega$  maximum; min. 50  $\Omega$  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)

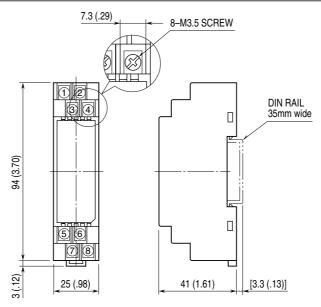
#### **PERFORMANCE** in percentage of span

Accuracy:  $\pm 0.1 \%$ Temp. coefficient:  $\pm 0.02 \%$ /°C ( $\pm 0.01 \%$ /°F) Response time: Approx. 15 msec. (0 – 90 %) Load effect: (factory-calibrated with 250  $\Omega$  load) 0.015 %/ $\Omega$  (50 – 150  $\Omega$ ) 0.003 %/ $\Omega$  (150 – 350  $\Omega$ ) Insulation resistance:  $\geq 100 \ M\Omega$  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**

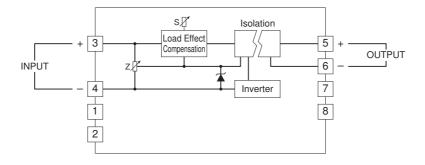
CE conformity: EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005

#### **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.

