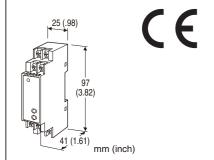
Super-mini Two-wire Terminal Block Signal Conditioners B5-UNIT

POTENTIOMETER TRANSMITTER

Functions & Features

- Provides an isolated 4 20 mA DC output proportional to a potentiometer or slidewire position input
- Constant voltage excitation
- · Monitor terminals
- · High-density mounting
- Power LED



MODEL: B5MS[1]

ORDERING INFORMATION

• Code number: B5MS[1]

Specify a code from below for [1].

(e.g. B5MS/K/Q)

• Specify the specification for option code /Q

(e.g. /C01)

[1] OPTIONS (multiple selections)

Response Time (0 - 90 %)

blank: Standard (≤ 0.5 sec.)

/K: Fast Response (Approx. 25 msec.)

Other Options blank: none

/Q: Option other than the above (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)

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black)

Isolation: Input to output

Zero adjustment: 0 – 30 % of total resistance (front) **Span adjustment**: 70 – 100 % of total resistance (front) Power LED: Orange light turns on when the power is

supplied.

INPUT SPECIFICATIONS

Input: Potentiometer; $100 \Omega - 10 k\Omega$ Minimum span: 70 % of total resistance

Excitation: 0.2 V DC

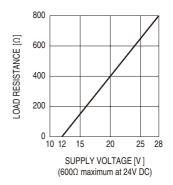
OUTPUT SPECIFICATIONS

Output: 4 - 20 mA DC

Load resistance vs. supply voltage:

Load Resistance (Ω) = (Supply Voltage (V) - 12 (V)) \div 0.02

(A) (including leadwire resistance)



INSTALLATION

Supply voltage: 12 - 28 V DC

Operating temperature: -40 to +80°C (-40 to +176°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: ±0.015 %/°C (±0.008 %/°F) Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute

(input to output to ground)

STANDARDS & APPROVALS

CE conformity:

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



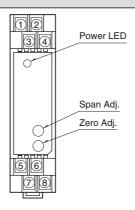
幸託有限公司 XIN TOP CORPORATION

TEL: (02)2598-1199 E-mail: info@xintop.com

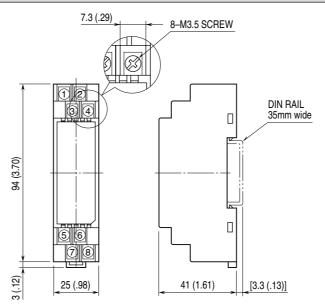
FAX: (02)2596-2331 Website: www.xintop.com

MODEL: B5MS

EXTERNAL VIEW

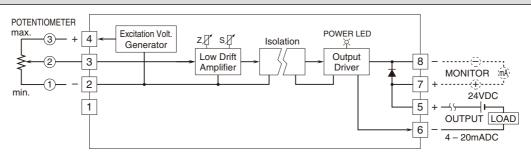


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.



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