MODEL: BM

Space-saving Two-wire Signal Conditioners B-UNIT

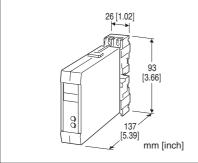
POTENTIOMETER TRANSMITTER

Functions & Features

- Providing a 4 20 mA DC signal proportional to a potentiometer or slidewire position input
- Constant voltage excitation allows use with pots with total resistances from 100 Ω 2 $k\Omega$ without affecting accuracy
- Minimal interaction between zero and span adjustments
- Monitor terminals
- High-density mounting

Typical Applications

- Tank levels
- Positions



MODEL: BM[1]

ORDERING INFORMATION

• Code number: BM[1]

Specify a code from below for [1].

(e.g. BM/Q)

• Specify the specification for option code /Q

(e.g. /C01/S01)

[1] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals (torque 0.8 N·m) **Screw terminal**: Nickel-plated steel (standard) or stainless

steel

Housing material: Flame-resistant resin (black) **Zero adjustment**: 0 to 10 % of total resistance

Span adjustment: (of total resistance)

135 Ω or above: 50 – 100 % Below 135 Ω : 70 – 100 %

INPUT SPECIFICATIONS

Potentiometer: $100 \Omega - 2 k\Omega$

Minimum span: 50 % of total resistance ($\geq 135 \Omega$); $\geq 70 \%$

of total resistance ($< 135 \Omega$) **Excitation**: Approx. 0.2 V DC

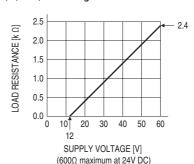
OUTPUT SPECIFICATIONS

Output: 4 - 20 mA DC

Load resistance vs. supply voltage:

Load Resistance (Ω) = (Supply Voltage (V) - 12 (V))

÷ 0.02 (A) (including leadwire resistance)



INSTALLATION

Supply voltage: 12 - 60 V DC

Operating temperature: -5 to +60°C (23 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface or DIN rail; Standard Rack Mounting

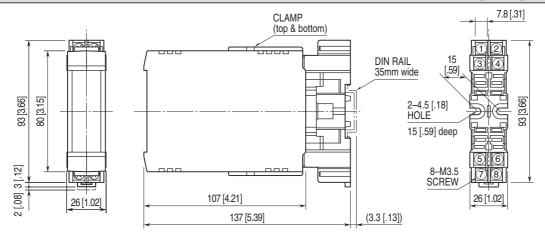
Frame BX-16H available **Weight**: 150 g (0.33 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.2 %

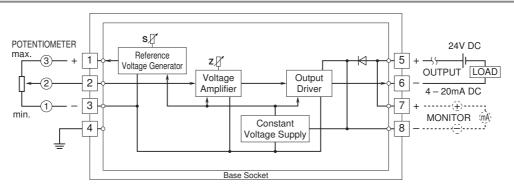
Temp. coefficient: $\pm 0.05 \%/^{\circ}C (\pm 0.03 \%/^{\circ}F)$ Response time: ≤ 0.5 sec. (0 - 90 %)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.