Space-saving Two-wire Signal Conditioners B-UNIT

LOW FREQUENCY TRANSMITTER

Functions & Features

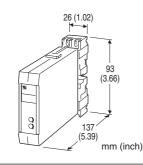
Converting the outupt from a pulse-type transducer into a

- standard 4 20 mA DC signal
- Monitor terminals
- High-density mounting

Typical Applications

• Positive displacement flowmeters, turbine flowmeters and vortex flowmeters

• Proximity switches



MODEL: BSP-[1][2]

ORDERING INFORMATION

- Code number: BSP-[1][2]
- Specify a code from below for each of [1] and [2]. (e.g. BSP-1/Q)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] INPUT (voltage pulse)

1: 0 - 100 Hz **2**: 0 - 500 Hz **3**: 0 - 5000 Hz

[2] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating TERMINAL SCREW MATERIAL /S01: Stainless steel

MSYSTEM M-SYSTEM CO., LTD. http://www.m-system.co.jp/

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: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

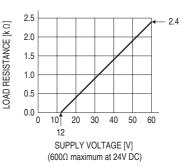
Input: Voltage pulse (zero-crossed) Input amplitude: 20 mVp-p - 50 Vp-p for 100 Hz and 500 Hz; 50 mVp-p - 50 Vp-p for 5000 Hz Input impedance: 100 k Ω at \leq 0.7 V; 50 k Ω at \geq 0.7 V

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

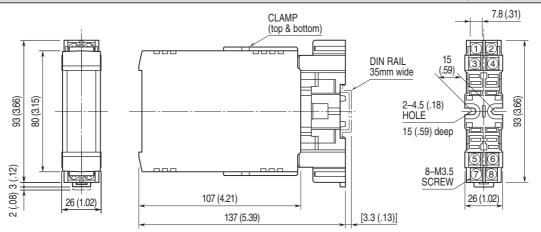
Supply voltage: 12 – 60 V DC Operating temperature: -5 to +60°C (23 to 140°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface or DIN rail; Standard Rack Mounting Frame BX-16H available Weight: 150 g (0.33 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.1 % (output 10 – 100 %) Temp. coefficient: ±0.01 %/°C (±0.006 %/°F) Response time: Approx. ≤ 1 sec. (0 – 90 %)

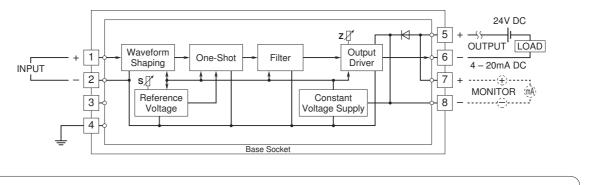
MODEL: BSP

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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