

Space-saving Two-wire Signal Conditioners B-UNIT

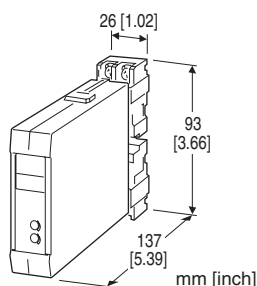
LOW FREQUENCY TRANSMITTER

Functions & Features

- Converting the output 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 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: -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

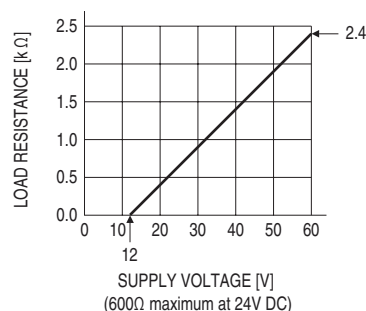
Input impedance: 100 kΩ at ≤ 0.7 V; 50 kΩ at ≥ 0.7 V

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 %)

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.