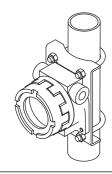
Field-mounted Two-wire Signal Conditioners 6B-UNIT

STRAIN GAUGE TRANSMITTER

Functions & Features

- IP66 / IP67 housing enables field mounting
- Stainless steel field housing selectable
- Used in conjunction with bridge type strain gauges utilized in load cells, pressure transducers, etc.
- + Excitation in pulses enables use with strain gauges of the bridge resistance 350 $\boldsymbol{\Omega}$
- Non-isolated
- \bullet Zero adjustment range: 0 to 80 %, span adjustment range 100 to 20 %



MODEL: 6BLC-02[1][2][3]

ORDERING INFORMATION

• Code number: 6BLC-02[1][2][3] Specify a code from below for each of [1] through [3]. (e.g. 6BLC-020A1)

SAFETY APPROVAL

0: None

INPUT STRAIN GAUGE

2: 2 mV/V

[1] WIRING CONDUIT

0: G 1/2 **1**: 1/2 NPT **2**: M20 × 1.5 **3**: PG 13.5

[2] ENCLOSURE MATERIAL

A: Diecast aluminumS: Stainless steel casting

[3] MOUNTING BRACKET

- 0: Without
- **1**: With

PACKAGE INCLUDES...

- Mounting screws Bolt (M8 x 15): 4 Spring washer for M8: 4 Material: Stainless steel 304
- Mounting bracket assembly (option): Mounting bracket: 1 M10 U-bolt: 2 Nut for M10: 4 Spring washer for M10: 4 Material: Stainless steel 304 Applicable pipe: 1 1/2" min.; 2" max.

GENERAL SPECIFICATIONS

Degree of protection: NEMA 4X, IP66/IP67 Wiring conduit: See 'Ordering information.' Electrical connection: M3 screw terminals (torque 0.6 N·m) Materials

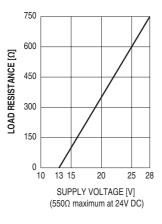
- Transmitter
- Transmitter housing: Diecast aluminum Screw terminals: Nickel-plated steel
- Enclosure: Diecast aluminum or stainless steel casting (equivalent to type 316); silver color, epoxy resin coated Isolation: Input or output to outdoor enclosure
 Zero adjustment: 0 – 80 % (behind the access cover)
 Span adjustment: 100 – 20 % (behind the access cover)

INPUT SPECIFICATIONS

Input: Bridge voltage from load cells Rated output from strain gauge: 2 mV/V Nominal bridge resistance: 350 Ω minimum Excitation: 5 V voltage pulse

OUTPUT SPECIFICATIONS

Output: 4 – 20 mA DC Load resistance vs. supply voltage: Load Resistance (Ω) = (Supply Voltage (V) – 13 (V)) ÷ 0.02 (A) (including leadwire resistance)



INSTALLATION

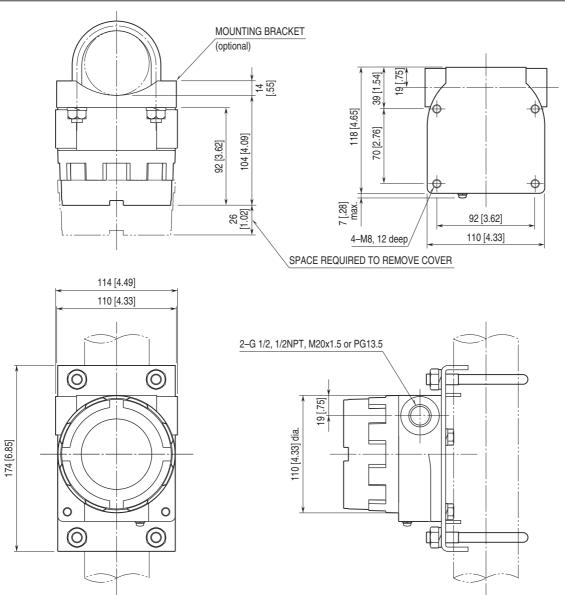
Supply voltage: 13 - 28 V DC Operating temperature: -5 to +70°C (23 to 158°F) Weight: • Unit Approx. 1.5 kg (2.9 lb), aluminium

- Approx. 4.2 kg (8.8 lb), stainless steel
- Mounting bracket assembly (option)
- Approx. 0.78 kg (1.72 lb)

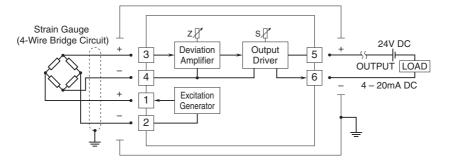
PERFORMANCE in percentage of span

Accuracy: $\pm 0.2 \%$ Temp. coefficient: $\pm 0.02 \%/^{\circ}C (\pm 0.01 \%/^{\circ}F)$ Response time: $\leq 0.5 \text{ sec.} (0 - 90 \%)$ Insulation resistance: $\geq 100 \text{ M}\Omega \text{ with } 500 \text{ V DC}$ Dielectric strength: 1500 V AC @ 1 minute(input or output to outdoor enclosure)

EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.