

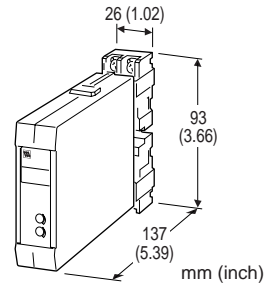
Space-saving Two-wire Signal Conditioners *B-UNIT*

STRAIN GAUGE TRANSMITTER

MODEL **BLC**

MODEL & SUFFIX CODE SELECTION

MODEL _____ **BLC**-□
 INPUT STRAIN GAUGE _____
 2 : 2mV/V
 0 : Specify
 OUTPUT
 4 – 20mA DC
 SUPPLY VOLTAGE
 13 – 28V DC



Functions & Features

- Used in conjunction with bridge type strain gauges utilized in load cells, pressure transducers, etc.
- Supplying the required excitation voltage and providing appropriate DC output signal
- Excitation in pulses enables use with strain gauges of the bridge resistance 350Ω
- Monitor terminals provided
- High-density mounting

Typical Applications

- Weighing system for tanks, hoppers, silos
- Weighing system using cranes
- Float level meter utilizing strain gauges

ORDERING INFORMATION

Specify code number. (e.g. BLC-2)

GENERAL SPECIFICATIONS

Construction: plug-in
Connection: M3.5 screw terminals
 (nickel-plated steel; torque ≤0.8 N·m)
Housing material: flame-resistant resin (black)
Front adjustments: 0 – 80% for zero; 20 – 100% for span

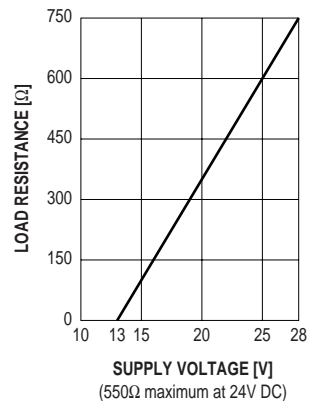
INPUT & OUTPUT

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

■**OUTPUT:** 4 – 20mA DC
Load resistance vs. supply voltage:

$$\text{Load Resistance } (\Omega) = \frac{\text{Supply Voltage (V)} - 13 \text{ (V)}}{0.02 \text{ (A)}}$$

(including leadwire resistance)



INSTALLATION**Supply voltage:** 13 – 28V 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**Dimensions:** W26×H93×D137 mm (1.02"×3.66"×5.39")
See General Spec. Sheet Figure A.**Weight:** 150 g (0.33 lbs)**Terminal assignment:** See General Spec. Sheet Figure B-1.**PERFORMANCE in percentage of span****Accuracy:** ±0.2%**Temp. coefficient:** ±0.02%/°C (±0.01%/°F)**Response time:** ≤0.5 seconds (0 – 90%)**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**