

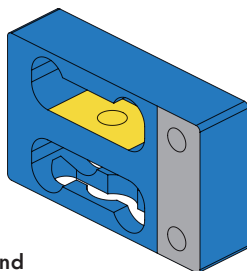
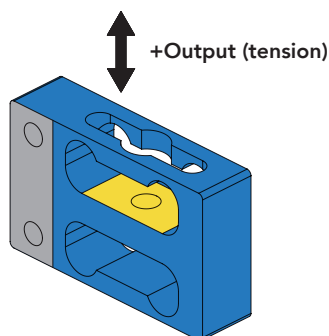


## FEATURES

- Intended for high volume applications
- Easily integrates into OEM applications
- 50 to 200x Built-in overload protection
- Low Power consumption
- Exceptional nonlinearity and nonrepeatability
- Can integrate with analog VDC, mA, digital SPI, I2C, RS-232, UART output, and more

-  Non-loading surface, do not contact
-  Active end



-  Fixed end

## SPECIFICATIONS

### PERFORMANCE

Nonlinearity	±0.05% of RO
Hysteresis	±0.05% of RO
Nonrepeatability	±0.05% of RO

### ELECTRICAL

Rated Output (RO)	1.5 mV/V nom (0.25 lb) 2 mV/V nom (0.5 – 1 lb)
Excitation (VDC or VAC)	18 max
Bridge Resistance	1000 Ohm nom
Insulation Resistance	≥500 Mohm @ 50 VDC
Connection	#29 AWG, 4 conductor, spiral teflon cable, 6 in [152.4 mm] long
Wiring/Connector Code	WC2

### MECHANICAL

Weight (approximate)	1 oz [28 g]
Safe Overload	50 lb [222.4 N]
Material	Aluminum
IP Rating	IP00

### TEMPERATURE

Operating Temperature	-60 to 200°F [-50 to 93°C]
Compensated Temperature	60 to 160°F [15 to 72°C]
Temperature Shift Zero	±0.005% of RO/°F [0.01% of RO/°C]
Temperature Shift Span	±0.005% of Load/°F [0.01% of Load/°C]

### CALIBRATION

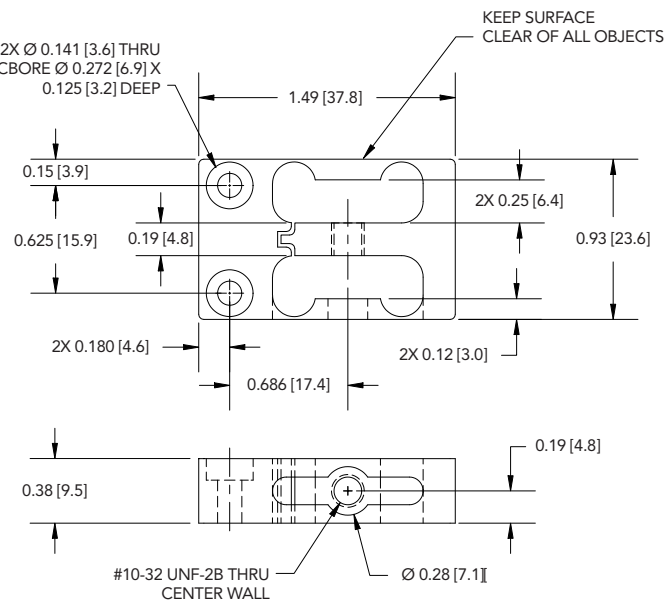
Calibration Test Excitation	10 VDC
Calibration (standard)	Certificate of Conformance
Calibration (available)	5-pt Tension and Compression
Shunt Calibration Value	200 kOhm (0.25 lb) 150 kOhm (0.5 – 1 lb)

### CONFORMITY

RoHS	2011/65/EU with 2015/863
CE	EN55011; EN61326-1



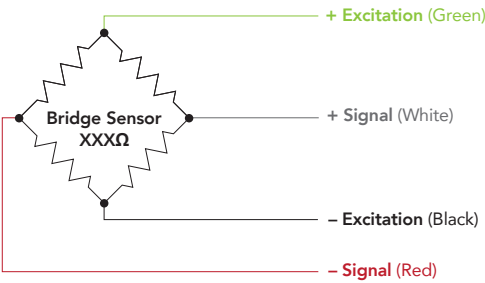
DIMENSIONS inches [mm]



WIRING CODE (WC2)

GREEN	+ EXCITATION
BLACK	- EXCITATION
WHITE	+ SIGNAL
RED	- SIGNAL

\*Color code for this sensor is not FUTEK standard



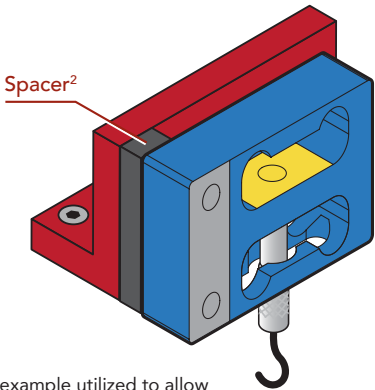
DEFLECTION

ITEM #	lb	N	Deflection (in.)	Natural Frequency (Hz)
FSH03923	0.25	1.1	0.0078 [0.1 mm]	155
FSH03924	0.5	2.2	0.0075 [0.1 mm]	225
FSH03925	1	4.5	0.0067 [0.1 mm]	335

MOUNTING

Deflecting surfaces must be free from contact or interference. Spacers may be used to help isolate sensor from surfaces.

- Non-contact area
- Active end
- Fixed end



<sup>2</sup> Spacer example utilized to allow sensor to float and prevent contact with non-loading surfaces.

Drawing Number: FI1414-B

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