



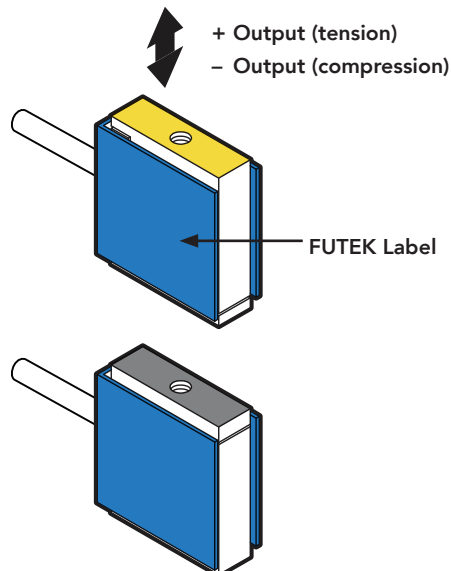
FEATURES

- Up to 10 times the overload protection
- Overload is available in Tension and Compression
- Light weight
- Notable nonlinearity
- Miniature size
- Ultra Low Capacity and High Sensitivity
- Vibration and shock resistance
- High flex silicone cable

 **Non-loading surface, do not contact**

 **Active End**

 **Fixed End**



SPECIFICATIONS

PERFORMANCE

Nonlinearity	±0.1% of RO
Hysteresis	±0.1% of RO
Nonrepeatability	±0.05% of RO

ELECTRICAL

Rated Output (RO)	See chart on third page
Excitation (VDC or VAC)	10 max
Bridge Resistance	1000 Ohm nom.
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#29 AWG, 4 conductor, spiral shielded silicone cable, 5 ft [1.5 m] long
Wiring Code	WC1

MECHANICAL

Weight (approximate)	0.7 oz [19.3 g] (10–250 g)
Safe Overload	1000% of RO
Material	Aluminum (10–250 g)
IP Rating	IP40
Vibration Resistance	20-2000 Hz, 0.01g ² /Hz per MIL-STD-810E
Shock Resistance	500 g per IEC60068-2-27

TEMPERATURE

Operating Temperature	-60 to 200°F [-50 to 93°C]
Compensated Temperature	60 to 160°F [15 to 72°C]
Temperature Shift Zero	±0.01% of RO/°F [0.018% of RO/°C]
Temperature Shift Span	±0.02% of Load/°F [0.036% of Load/°C]

CALIBRATION

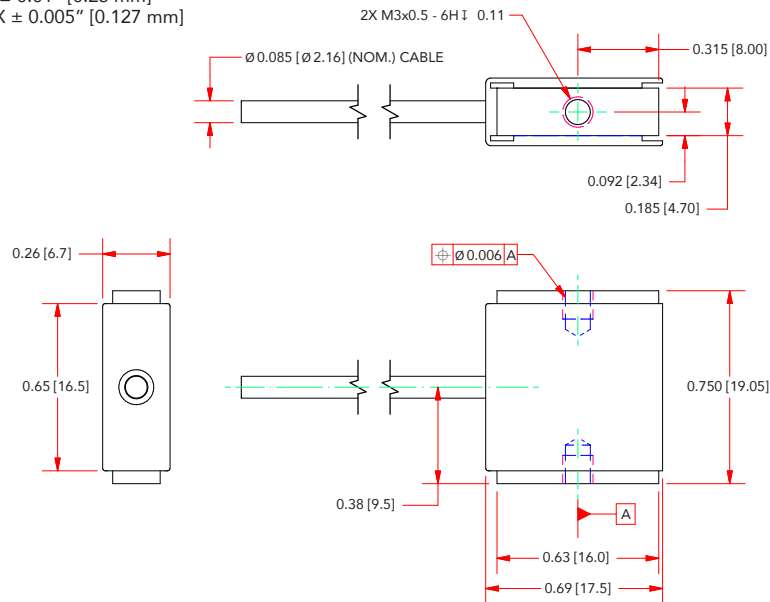
Calibration Test Excitation	5 VDC
Calibration (standard)	5-pt Tension
Calibration (available)	5-pt Tension and Compression
Shunt Calibration Value	301 kOhm (10–20 g) 150 kOhm (50–250 g)

CONFORMITY

RoHS	EU 2015/863
CE	EN55011; EN61326-1

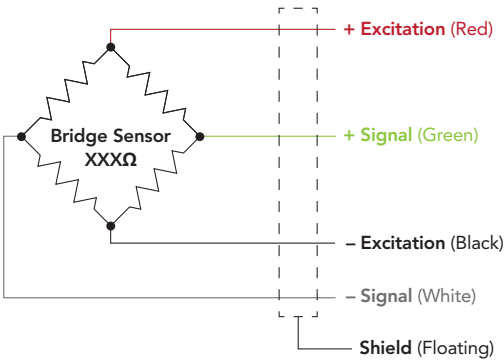
DIMENSIONS inches [mm]

TOLERANCE:
.X ± 0.1" [2.5 mm]
.XX ± 0.01" [0.25 mm]
.XXX ± 0.005" [0.127 mm]



WIRING CODE (WC1)

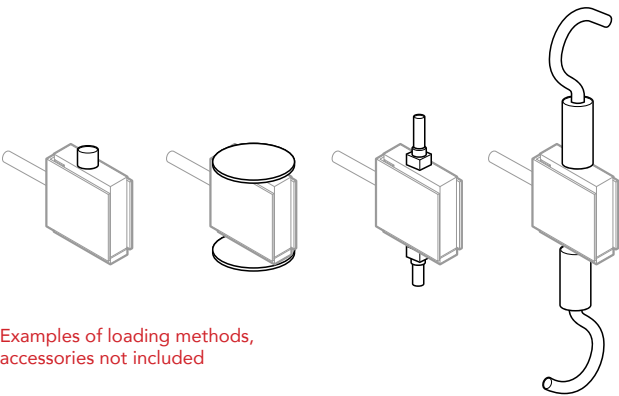
RED	+ EXCITATION
BLACK	- EXCITATION
GREEN	+ SIGNAL
WHITE	- SIGNAL
SHIELD	FLOATING



CAPACITIES

ITEM #	g	N	RO (nom)	Deflection	Natural Frequency (Hz)
FSH03867	10 g	0.1	0.5 mV/V	0.004 in [0.10 mm]	140
FSH03868	20 g	0.2	1 mV/V	0.008 in [0.20 mm]	140
FSH03869	50 g	0.5	2 mV/V	0.010 in [0.25 mm]	200
FSH03870	100 g	1.0		0.008 in [0.20 mm]	300
FSH03871	250 g	2.5		0.007 in [0.18 mm]	530

MOUNTING



Drawing Number: FI1455-B

FUTEK reserves the right to modify its design and specifications without notice.
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RoHS



U.S. Manufacturer