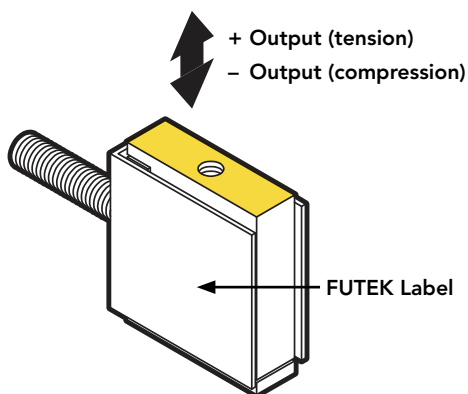




FEATURES

- Up to 10 times the overload protection
- Overload is available in Tension and Compression
- Light weight
- Notable nonlinearity
- Loads up to 100 lb (445 N)
- Miniature size

 Active 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	See chart on third page
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)	0.3 oz [9 g]
Safe Overload	1000% of RO 200% tension only (50–100 lb)
Material	Aluminum (10 g–10 lb), stainless-steel (25–100 lb)
IP Rating	IP40

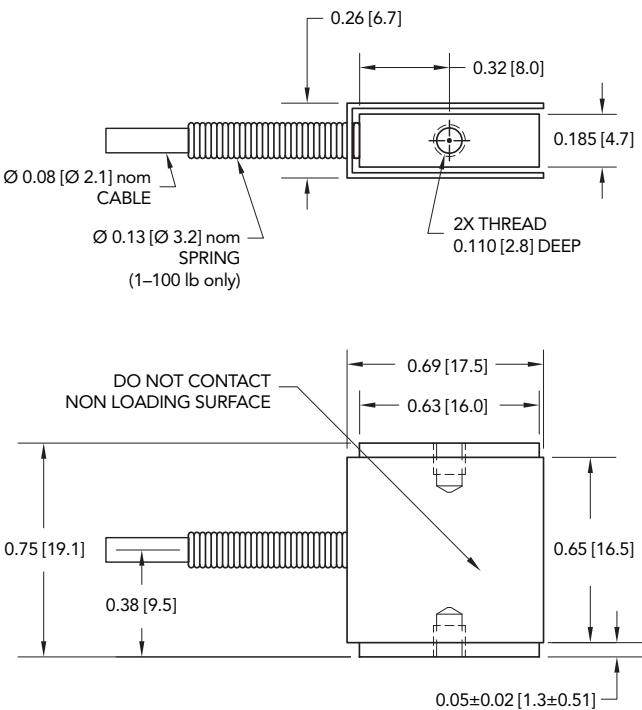
TEMPERATURE

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

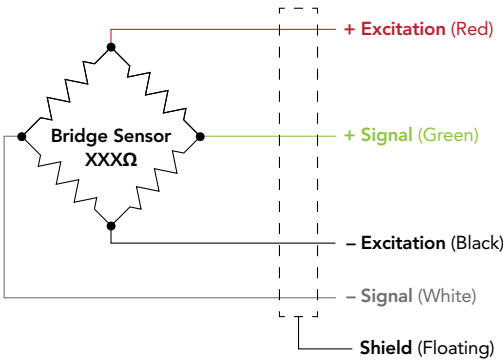
Calibration Test Excitation	5 VDC
Calibration (standard)	5-pt Tension
Calibration (available)	Compression

DIMENSIONS inches [mm]



WIRING CODE (WC1)

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



CAPACITIES

ITEM #	lb	N	RO (nom)	Bridge Resistance	Shunt Calibration Value	Deflection (in.)	Natural Frequency (Hz)
FSH03867	10g	0.1	0.5 mV/V	1000 Ohm nom	301 kOhm	0.004	140
FSH03868	20g	0.2	1 mV/V			0.008	140
FSH03869	50g	0.5	2 mV/V		150 kOhm	0.010	200
FSH03870	100g	1.0				0.008	300
FSH03871	250g	2.5				0.007	530
FSH03872	1	4.5		350 Ohm nom	60.4 kOhm	0.004	930
FSH03873	2	8.9				0.004	1340
FSH03874	5	22.2				0.005	1900
FSH03875	10	44.5				0.004	3000
FSH03876	25	111				0.004	2770
FSH03877	50	222	0.004			3600	
FSH03878	100	445			0.005	4600	

Drawing Number: FI1455

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