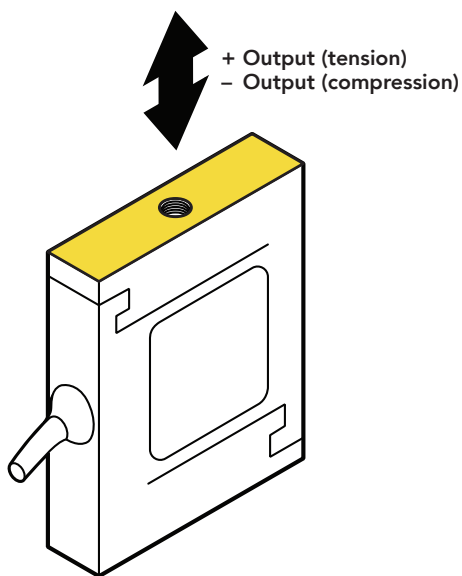


FEATURES

- Up to 10 times the overload protection
- Light weight
- Loads up to 100 lb (445 N)
- Miniature size

 Active end



SPECIFICATIONS

PERFORMANCE

Nonlinearity	See chart on next page
Hysteresis	See chart on next page

ELECTRICAL

Excitation (VDC)	10 max
Bridge Resistance	1000 Ohm nom (100 g), 350 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#29 AWG, 4 conductor, spiral shielded silicone cable, 5 ft [1.5 m] long
Wiring/Connector Code	WC1

MECHANICAL

Weight (approximate)	0.3 oz [9 g] (100 g–10 lb) 0.9 oz [26 g] (100 lb)
Safe Overload ¹	1000% of RO 200% of RO tension only (100 lb)
Material	Anodized aluminum (100 g–10 lb), 17-4 PH stainless-steel (100 lb)
IP Rating	IP68
Water Resistance	Up to 50 ft in fresh water for less than one week

TEMPERATURE

Operating Temperature	0 to 160°F [-17 to 72°C]
Compensated Temperature	60 to 160°F [15 to 72°C]
Temperature Shift Zero	±0.02% of RO/°F [0.04% of RO/°C]
Temperature Shift Span	±0.04% of Load/°F [0.08% of Load/°C]

CALIBRATION

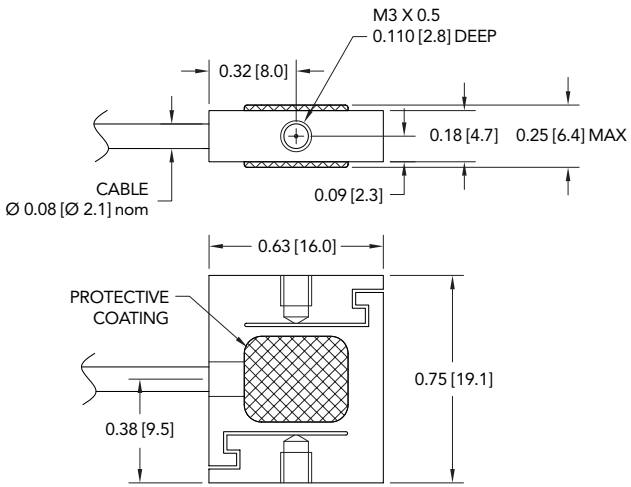
Calibration Test Excitation	5 VDC
Calibration (standard)	5-pt Tension
Calibration (available)	Compression
Shunt Calibration Value	60.4 kOhm, 301 kOhm (100 g)

CONFORMITY

RoHS	2011/65/EU
CE	EN61326-1:2006

¹Sensor structure can handle high overloads but threads may limit overload at higher capacity

DIMENSIONS inches [mm]



CAPACITIES

ITEM #	lb	N	RO (nom)	Non-Linearity	Hysteresis	Zero Return	Creep 10 mins
FSH03940	100 g	1	1 mV/V	3% RO	5% RO	3% RO	12% RO
FSH03941	2	8.9	2 mV/V	0.5% RO	1% RO	0.5% RO	1% RO
FSH03942	10	44.5	2 mV/V	0.2% RO	0.2% RO	0.2% RO	0.5% RO
FSH03943	100	445	2 mV/V	0.2% RO	0.2% RO	0.2% RO	0.2% RO

WIRING CODE (WC1)

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

Drawing Number: F11318-D

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