



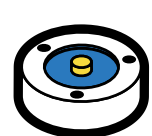
FEATURES

- Ultra low deflection
- Robust strain relief
- 17-4 PH stainless-steel construction
- For use in compression
- Utilizes metal foil strain gauge technology
- Adheres to RoHS directive 2011/65/EU

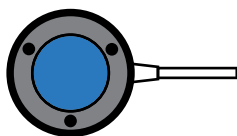
 Non-loading surface, do not contact

 Active End

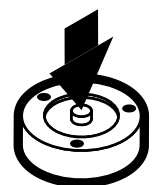
 Fixed End



Top view



Bottom view



+ Output (compression)

SPECIFICATIONS

PERFORMANCE

Nonlinearity	See chart on next page
Hysteresis	See chart on next page
Nonrepeatability	±0.05% of RO

ELECTRICAL

Rated Output (RO)	2 mV/V nom (100 to 2000 lb), 2.5 mV/V nom (2500 lb)
Excitation (VDC or VAC)	18 max
Bridge Resistance	740 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#26 AWG, 4 conductor, braided shielded Teflon cable 10 ft [3 m] long
Wiring/Connector Code	WC1

MECHANICAL

Weight (approximate)	3.7 oz [102 g]
Safe Overload	150% of RO
Deflection	0.001 in [0.025 mm] nom
Material	17-4PH stainless-steel
IP Rating	IP64

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]

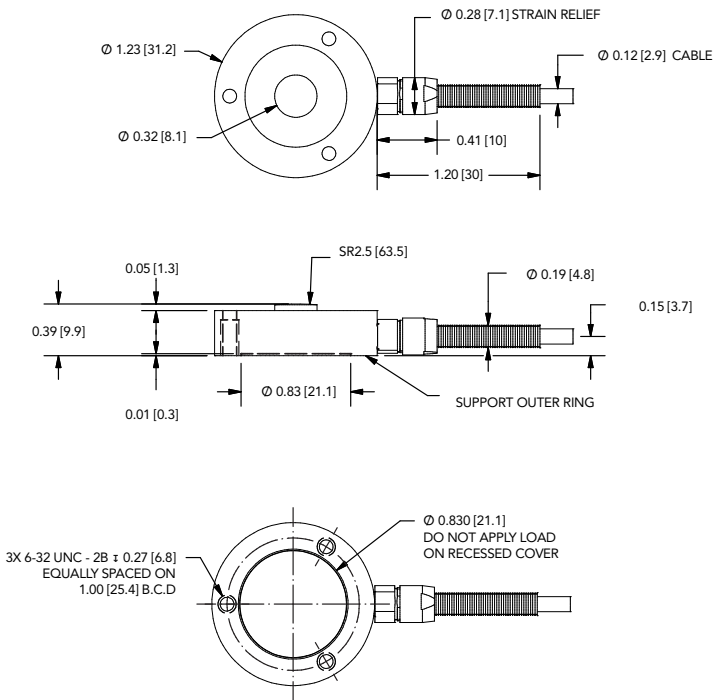
CALIBRATION

Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt Compression
Shunt Calibration Value	100 kOhm, 87.325 kOhm (2500 lb)

CONFORMITY

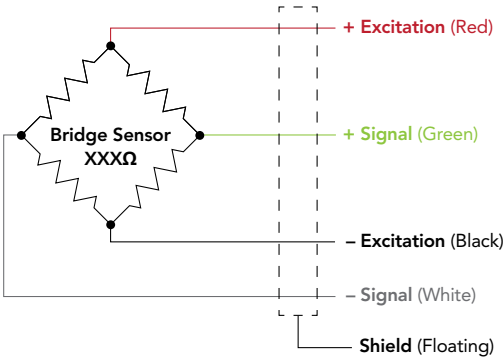
RoHS	2011/65/EU
CE	EN55011:2009; EN61326-1:2006

DIMENSIONS inches [mm]



WIRING CODE (WC1 WITH SHIELD)

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



CAPACITIES

ITEM #	lb.	N	Nonlinearity % of RO	Hysteresis % of RO	Natural Frequency (kHz)
FSH03889	100	445	±0.15	±0.15	12.3
FSH03890	250	1112	±0.15	±0.15	18
FSH03891	500	2224	±0.25	±0.25	24
FSH03892	1000	4448	±0.25	±0.25	29.9
FSH03893	2000	8896	±0.35	±0.35	30.7
FSH03894	2500	11120	±0.50	±0.50	31.8



Drawing Number: FI1055-H

FUTEK reserves the right to modify its design and specifications without notice. Please visit www.futek.com/salesterms for complete terms and conditions.

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RoHS



U.S. Manufacturer