

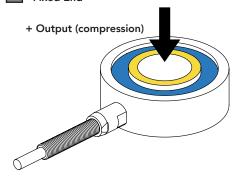


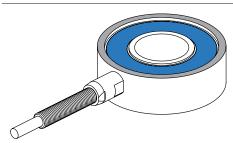
## **FEATURES**

- Fast response time
- Robust strain relief
- Compatible in load washer applications
- Offered in a variety of capacities and inner diameters
- Low power consumption



Active End





SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.5% of RO
ELECTRICAL	
Rated Output (RO)	1.5 mV/V (100 lb) 2 mV/V (250–5000 lb) nom
Excitation (VDC or VAC)	18 max
Bridge Resistance	700 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#24 AWG, 4 conductor, braided shielded Teflon cable, 10 ft [3 m] long
Wiring/Connector Code	WC1
MECHANICAL	
Capacities	100 lb [445 N], 250 lb [1112 N], 500 lb [2224 N], 1000 lb [4448 N], 2000 lb [8896 N], 3000 lb [13345 N], 5000 lb* [22240 N]*
Weight (approximate)	3.5 oz [99 g]
Safe Overload	150% of RO
Deflection	0.002 in [0.05 mm] nom
Material	17-4 PH 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	±0.005% 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)	5-pt Compression
Shunt Calibration Value	150 kOhm (100 lb) 100 kOhm (500–5000 lb)
CONFORMITY	
RoHS	EU 2015/863
CE	EN55011; EN61326-1

<sup>\*</sup>Commonly stocked capacities











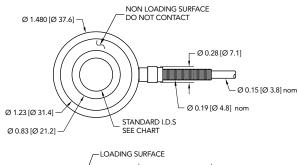


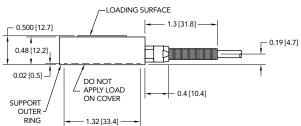




Model LTH350

### **DIMENSIONS** inches [mm]



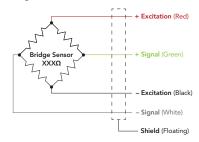


INNER DIAMETER	
ID	<b>Dimension</b> $^{+0.01}_{-0.00} \begin{bmatrix} +0.25\\ -0.00 \end{bmatrix}$
1/4	0.259 [6.58]
5/16	0.322 [8.18]
3/8	0.384 [9.75]
7/16	0.447 [11.35]
1/2*	0.509 [12.93]
9/16	0.572 [14.53]
5/8*	0.634 [16.10]

# \*Commonly stocked inner diameters

**Note**: While torquing bolts, high tension forces will occur during installation, which could result in overloading the sensor. FUTEK recommends connecting the sensor to a system in order to monitor the applied forces. FUTEK is not liable or responsible for the mishandling of the sensor during installation.

WIRING CODE (WC1 WITH SHIELD)	
EXCITATION	
XCITATION	
SIGNAL	
IGNAL	
OATING	



#### **CAPACITIES** ITEM # lb Ν ID FSH04309 500 2224 1/4 in [6.35 mm] FSH04310 5000 22240 1/4 in [6.35 mm] FSH04308 5000 22240 5/16 in [7.94 mm] FSH04303 100 445 3/8 in [9.53 mm] FSH04304 250 1112 3/8 in [9.53 mm] FSH04305 500 2224 3/8 in [9.53 mm] FSH04306 1000 4448 3/8 in [9.53 mm] FSH04307 2000 8896 3/8 in [9.53 mm] FSH04183 5000 22240 3/8 in [9.53 mm] FSH04302 100 445 7/16 in [11.1 mm] FSH04184 500 2224 1/2 in [12.7 mm] FSH04185 1000 4448 1/2 in [12.7 mm] FSH04186 2000 8896 1/2 in [12.7 mm] FSH04187 3000 13345 1/2 in [12.7 mm] FSH04188 5000 22240 1/2 in [12.7 mm] FSH04189 1000 4448 9/16 in [14.29 mm] FSH04190 2000 8896 9/16 in [14.29 mm] FSH04191 3000 13345 9/16 in [14.29 mm] FSH04192 5000 22240 9/16 in [14.29 mm] FSH04193 100 445 5/8 in [15.88 mm] FSH04194 250 1112 5/8 in [15.88 mm] FSH04195 500 2224 5/8 in [15.88 mm] FSH04196 4448 1000 5/8 in [15.88 mm] FSH04197 2000 8896 5/8 in [15.88 mm] FSH04198 3000 13345 5/8 in [15.88 mm] FSH04199 5000 22240 5/8 in [15.88 mm]





# Drawing Number: FI1443-B

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