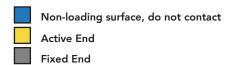
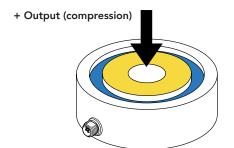


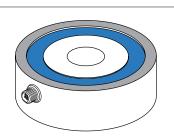


FEATURES

- Compatible in load washer applications
- Offered in a variety of capacities and inner diameters
- Low power consumption
- Fast response (µs) and low deflection
- Environmental Protection, IP67 Rated
- Water Resistant and Outdoor Rated
- Quick Disconnect Cable







SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO ±1% of RO (50,000 lbs)
Nonrepeatability	±0.5% of RO
ELECTRICAL	
Rated Output (RO)	2 mV/V nom
Excitation (VDC or VAC)	18 max
Bridge Resistance	700 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	4 Position Micro Receptacle
Wiring Code	CC19
MECHANICAL	
Capacities	Refer to online store for available capacities (up to 50,000 lbs) and ID Size Combinations.
Weight (approximate)	26 oz [737 g]
Safe Overload	150% of RO
Deflection	0.002 in [0.05 mm] nom
Material	17-4 PH stainless-steel
IP Rating	IP67
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	100 kOhm
CONFORMITY	
RoHS	EU 2015/863
CE	EN55011; EN61326-1

 $\begin{tabular}{ll} Sensor Solution Source \\ Load \cdot Torque \cdot Pressure \cdot Multi-Axis \cdot Calibration \cdot Instruments \cdot Software \\ \end{tabular}$









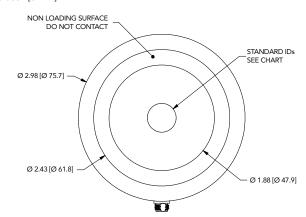


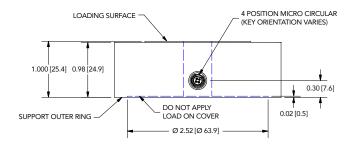


Model LTH500 2

DIMENSIONS inches [mm]

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





INNER DIAMETER (Actual)	
ID	Dimension $^{+0.01}_{-0.00} \begin{bmatrix} +0.25\\ -0.00 \end{bmatrix}$
3/8	0.384 [9.75]
1/2	0.509 [12.93]
9/16	0.572 [14.53]
5/8	0.634 [16.10]
3/4	0.769 [19.53]
7/8	0.894 [22.71]
1	1.019 [25.88]
1 1/4	1.269 [32.23]

FUTEK 4 PIN MICRO CIRCULAR (CC19)

1	+ EXCITATION	Red
2	– EXCITATION	Black
3	– SIGNAL	White
4	+ SIGNAL	Green



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.

Drawing Number: FI1552

 $\label{putting} \mbox{FUTEK reserves the right to modify its design and specifications without notice.}$

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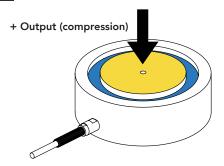
FEATURES

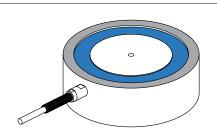
- Fast response time
- Robust strain relief
- Compatible in load washer applications
- Offered in a variety of capacities and inner diameters



Active End

Fixed End





SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.5% of RO
ELECTRICAL	
Rated Output (RO)	2 mV/V 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	15000 lb* [66723 N]*, 30000 lb* [133440 N]*, 50000 lb* [222400 N]*
Weight (approximate)	26 oz [737 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	100 kOhm
*Commonly stocked capacities	
CONFORMITY	
RoHS	EU 2015/863
CE	EN55011; EN61326-1

DSPM Industria*

sensori & trasduttori

 $\begin{tabular}{ll} Sensor Solution Source \\ Load \cdot Torque \cdot Pressure \cdot Multi-Axis \cdot Calibration \cdot Instruments \cdot Software \\ \end{tabular}$









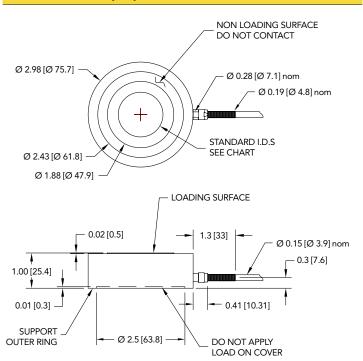






Model LTH500

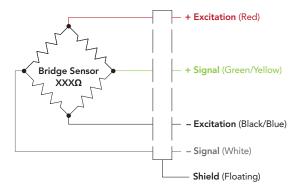
DIMENSIONS inches [mm]



INNER DIAMETER	
ID	Dimension $^{+0.01}_{-0.00} \begin{bmatrix} +0.25 \\ -0.00 \end{bmatrix}$
1/8	0.134 [3.40]
3/16	0.197 [5.01]
1/4	0.259 [6.58]
3/8	0.384 [9.75]
7/16	0.447 [11.35]
1/2	0.509 [12.93]
5/8	0.634 [16.10]
3/4*	0.769 [19.53]
7/8	0.894 [22.71]
1	1.019 [25.88]
1 1/4*	1.269 [32.23]

^{*}Commonly stocked inner diameters

WIRING CODE (WC1 WITH SHIELD)		
RED	+ EXCITATION	
BLACK	– EXCITATION	
GREEN	+ SIGNAL	
WHITE	– SIGNAL	
SHIELD	FLOATING	



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.

Drawing Number: FI1427-B

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