




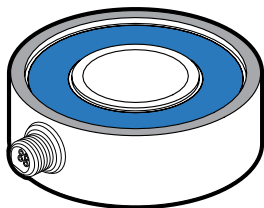
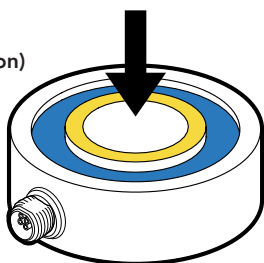


## FEATURES

- Compatible in load washer applications
- Offered in a variety of capacities and inner diameters
- Low power consumption
- Fast response ( $\mu$ s) and low deflection
- Quick Disconnect Cable

-  Non-loading surface, do not contact
-  Active End
-  Fixed End

+ Output  
(compression)



## SPECIFICATIONS

### PERFORMANCE

Nonlinearity	$\pm 0.5\%$ of RO
Hysteresis	$\pm 0.5\%$ of RO
Nonrepeatability	$\pm 0.5\%$ 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	$\geq 500$ MOhm @ 50 VDC
Connection	4 Position Micro Receptacle
Wiring Code	CC19

### MECHANICAL

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	$\pm 0.005\%$ of RO/°F (0.01% of RO/°C)
Temperature Shift Span	$\pm 0.005\%$ of Load/°F (0.01% of Load/°C)

### CALIBRATION

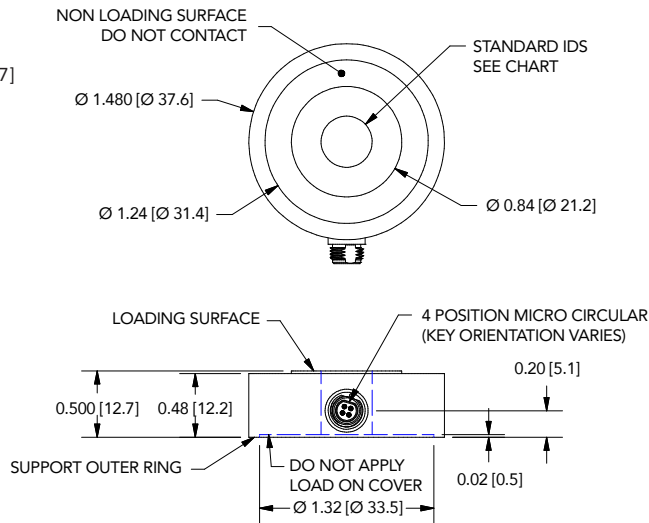
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt Compression
Shunt Calibration Value	150 kOhm (100 lb) 100 kOhm (500–5000 lb)

### CONFORMITY

RoHS	EU 2015/863
CE	EN55011; EN61326-1

## DIMENSIONS inches [mm]

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



## CAPACITIES

ITEM #	lb	N	Nominal ID
FSH04581	5000	22240	1/4 in [6.35 mm]
FSH04582	5000	22240	5/16 in [7.94 mm]
FSH04583	100	445	3/8 in [9.53 mm]
FSH04584	250	1112	3/8 in [9.53 mm]
FSH04585	1000	4448	3/8 in [9.53 mm]
FSH04586	2000	8896	3/8 in [9.53 mm]
FSH04587	5000	22240	3/8 in [9.53 mm]
FSH04588	100	445	7/16 in [11.1 mm]
FSH04589	500	2224	1/2 in [12.7 mm]
FSH04590	1000	4448	1/2 in [12.7 mm]
FSH04591	2000	8896	1/2 in [12.7 mm]
FSH04592	3000	13345	1/2 in [12.7 mm]
FSH04593	5000	22240	1/2 in [12.7 mm]
FSH04594	3000	13345	9/16 in [14.29 mm]
FSH04595	100	445	5/8 in [15.88 mm]
FSH04596	250	1112	5/8 in [15.88 mm]
FSH04597	500	2224	5/8 in [15.88 mm]
FSH04598	1000	4448	5/8 in [15.88 mm]
FSH04599	2000	8896	5/8 in [15.88 mm]
FSH04600	3000	13345	5/8 in [15.88 mm]
FSH04601	5000	22240	5/8 in [15.88 mm]
FSH04602	3000	13345	3/8 in [9.53 mm]

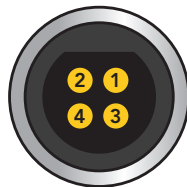
## INNER DIAMETER (Actual)

ID	Dimension inches [mm]	+0.01 -0.00 [+0.25 -0.00]
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]	

**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.

## FUTEK 4 PIN MICRO CIRCULAR (CC19)

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



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RoHS



U.S. Manufacturer