

**FEATURES**

- Low deflection / fast response
- Environmental protection, IP67 Rated
- Water resistant and outdoor rated
- 17-4 PH stainless-steel construction
- Utilizes metal foil strain gauge technology
- Field-replaceable cable
- Tight height tolerance in support of multi-sensor platform applications
- Accessories and related instruments available

 Non-loading surface, do not contact

 Active End

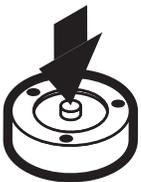
 Fixed End



Top view



Bottom view



+ Output (compression)

**SPECIFICATIONS****PERFORMANCE**

Nonlinearity	See chart <sup>1</sup>
Hysteresis	See chart <sup>1</sup>
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	700 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	4 Position Micro Receptacle
Wiring/Connector Code	CC19

**MECHANICAL**

Weight (approximate)	3.7 oz [102 g]
Safe Overload	150% of RO
Deflection	See chart <sup>1</sup>
Material	17-4PH stainless-steel
IP Rating	IP67

**TEMPERATURE**

Operating Temperature	-60 to 200°F [-51 to 93°C]
Compensated Temperature	60 to 160°F [15 to 71°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**

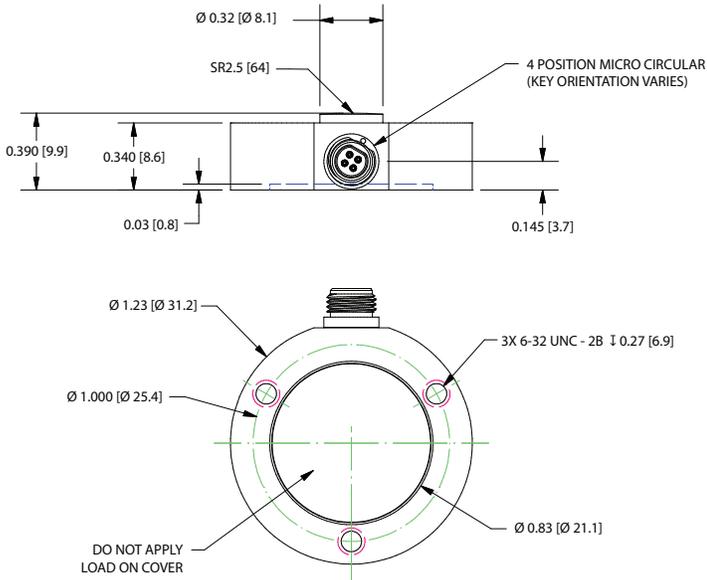
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt Compression
Shunt Calibration Value	100 kOhm, 87.325 kOhm (2500 lb)

**CONFORMITY**

RoHS	EU 2015/863
CE	EN55011; EN61326-1

## DIMENSIONS inches [mm]

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



## FUTEK 4 PIN MICRO CIRCULAR (CC19)

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



## CAPACITIES

ITEM #	lb.	N	Nonlinearity (% of RO)	Hysteresis (% of RO)	Deflection (in)	Natural Frequency (kHz)
FSH04603	100	445	±0.15	±0.15	0.001	14
FSH04604	250	1112	±0.15	±0.15	0.001	23
FSH04605	500	2224	±0.25	±0.25	0.001	32
FSH04606	1000	4448	±0.25	±0.25	0.001	40
FSH04607	2000	8896	±0.35	±0.35	0.002	45
FSH04608	2500	11120	±0.50	±0.50	0.002	45

### General Notes:

<sup>1</sup> See "Capacities" chart on page 2

In-line sensors are sensitive to off-axis or extraneous forces, please refer to [Extraneous Load Factor sheet](#).

### Drawing Number: FI1536-A

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RoHS



U.S. Manufacturer