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FEATURES

- Minimal mounting clearance
- 17-4 PH stainless-steel construction
- For use in both tension and compression
- Utilizes metal foil strain gauge technology
- Environmental Protection, IP67 Rated
- Fast Response time
- Water Resistant and Outdoor Rated

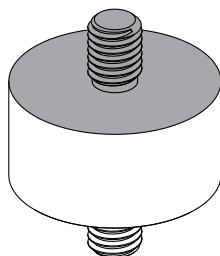
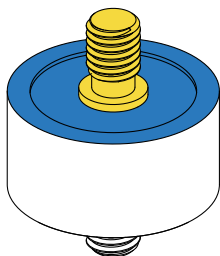
 Non-loading surface, do not contact

 Active End

 Fixed End

+ Output (tension)

- Output (compression)



SPECIFICATIONS

PERFORMANCE

Nonlinearity $\pm 0.25\%$ of RO

Hysteresis $\pm 0.25\%$ of RO

Nonrepeatability $\pm 0.1\%$ of RO

ELECTRICAL

Rated Output (RO) 2 mV/V nom

Excitation (VDC or VAC) 15 max

Bridge Resistance 740 Ohm nom

Insulation Resistance ≥ 500 MOhm @ 50 VDC

Connection 4 Position Micro Receptacle

Wiring/Connector Code CC19

MECHANICAL

Weight 1.5 oz [42.5 g]

Safe Overload 150% of RO

Deflection See chart on next page

Material (flexure) 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 $\pm 0.005\%$ of RO/ $^{\circ}\text{F}$ (± 0.01 of RO/ $^{\circ}\text{C}$)

Temperature Shift Span $\pm 0.02\%$ of load/ $^{\circ}\text{F}$ (± 0.036 of load/ $^{\circ}\text{C}$)

CALIBRATION

Calibration Test Excitation 10 VDC

Calibration (standard) 5-pt Tension

Calibration (available) Compression

Shunt Calibration Value 100 kOhm

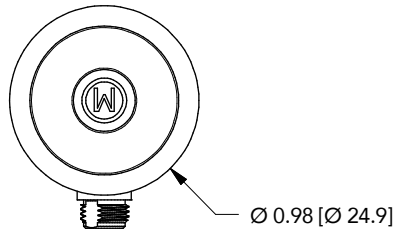
CONFORMITY

RoHS EU 2015/863

CE EN55011; EN61326-1

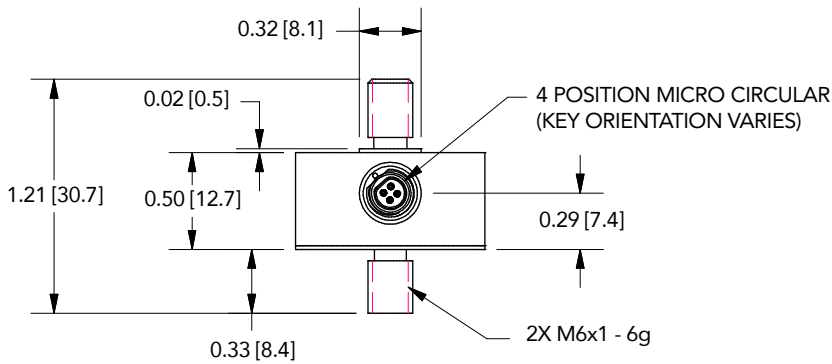
DIMENSIONS inches [mm]

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



FUTEK 4 PIN MICRO CIRCULAR (CC19)

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



CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (kHz)
FSH04530	50	223	0.002	6.1
FSH04531	100	445	0.001	10.9
FSH04532	250	1112	0.001	17
FSH04533	500	2224	0.001	23
FSH04534	1000	4448	0.001	29



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RoHS



U.S. Manufacturer