



FEATURES

- Water Resistant and Outdoor Rated
- Compact Size
- Fast Response Rate (μ s)
- 17-4 PH stainless-steel construction
- Environmental Protection, IP67 Rated
- Low power consumption
- Quick Disconnect Cable
- Includes bottom mounting provisions
- Notable non-linearity & non-repeatability

 Non-loading surface, do not contact

 Active End

 Fixed End



Top view



Bottom view



+ Output (compression)

SPECIFICATIONS

PERFORMANCE

Nonlinearity	See chart on next page
Hysteresis	See chart on next page
Nonrepeatability	$\pm 0.1\%$ 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/Connector Code	CC19

MECHANICAL

Weight (approximate)	10.4 oz [294.8 g]
Safe Overload	150% of RO
Deflection	See chart on next page
Material	17-4 PH stainless-steel
IP Rating	IP67 (Micro Connector)

TEMPERATURE

Operating Temperature	-60 to 200°F [-50 to 93°C]
Compensated Temperature	60 to 160°F [15 to 72°C]
Temperature Shift Zero	$\pm 0.01\%$ of RO/ $^{\circ}\text{F}$ [0.018% of RO/ $^{\circ}\text{C}$]
Temperature Shift Span	$\pm 0.005\%$ of LOAD/ $^{\circ}\text{F}$ [0.009% of LOAD/ $^{\circ}\text{C}$]

CALIBRATION

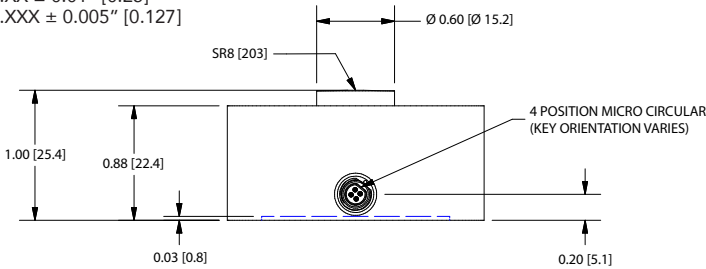
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt Compression
Shunt Calibration Value	100 kOhm

CONFORMITY

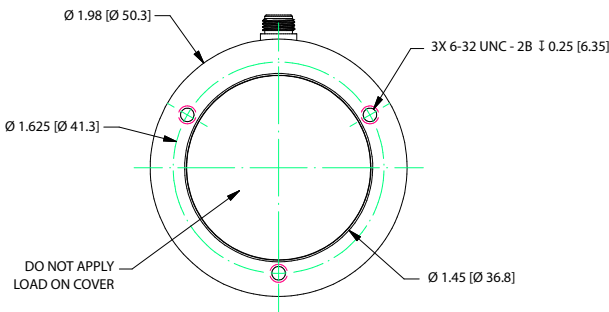
RoHS	EU 2015/863
CE	EN55011; EN61326-1

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	Deflection (in)	Natural Frequency (kHz)	Nonlinearity (% of RO)	Hysteresis (% of RO)
FSH04543	15k	66720	0.0037	24	± 0.25%	± 0.25%
FSH04544	20k	88960	0.0041	25	± 0.25%	± 0.25%
FSH04545	30k	133440	0.0046	26	± 0.35%	± 0.35%



SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592
Tel: (65) 6561 0488 Fax: (65) 6562 0588
Email: sales@scigate.com.sg Web: www.scigate.com.sg
Business Hours: Monday - Friday 8.30am - 6.15pm

Drawing Number: FI1532

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10 Thomas, Irvine, CA 92618 USA
Tel: (949) 465-0900

www.futek.com



RoHS



U.S. Manufacturer