



Sub-Miniature Through Hole Donut Load Cell



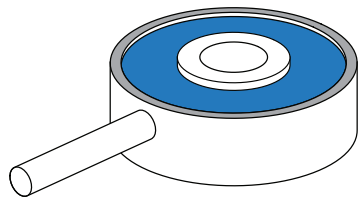
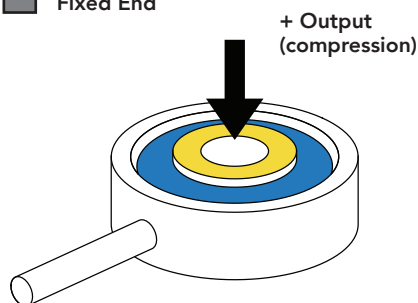
FEATURES

- Various capacities from 0-250 lb
- Miniature size, ideal for tight spaces.
- Quick response with low deflection.
- Low power consumption.

 Non-loading surface, do not contact

 Active End

 Fixed End



SPECIFICATIONS

PERFORMANCE

Nonlinearity See table

Hysteresis See table

Nonrepeatability $\pm 0.1\%$ of RO

ELECTRICAL

Rated Output (RO) See table

Excitation (VDC or VAC) 12 max

Bridge Resistance 1000 Ohm nom

Insulation Resistance ≥ 500 MOhm @ 50 VDC

Connection 34 Awg 4 Conductor Braided Polyester Cable
5 ft [1.5m] Long

Wiring/Connector Code WC1

MECHANICAL

Capacities See table

Weight (approximate) 0.02 lb [9.1 g]

Safe Overload 150% of RO

Deflection 0.0006 in [0.015 mm] Nom.

Material 17-4 PH stainless-steel

IP Rating IP64

TEMPERATURE

Operating Temperature -60 to 200°F (-51 to 93°C)

Compensated Temperature 60 to 160°F (15 to 71°C)

Temperature Shift Zero $\pm 0.02\%$ of RO/°F ($\pm 0.036\%$ of RO/°C)

Temperature Shift Span $\pm 0.02\%$ of Load/°F ($\pm 0.036\%$ of Load/°C)

CALIBRATION

Calibration Test Excitation 5 VDC

Calibration (standard) 5-pt Compression

Shunt Calibration Value See table

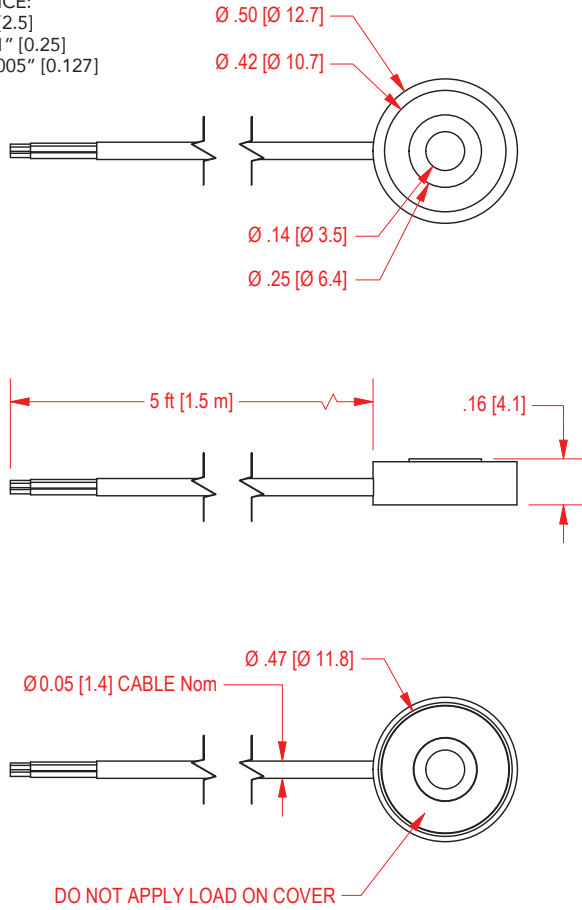
CONFORMITY

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]

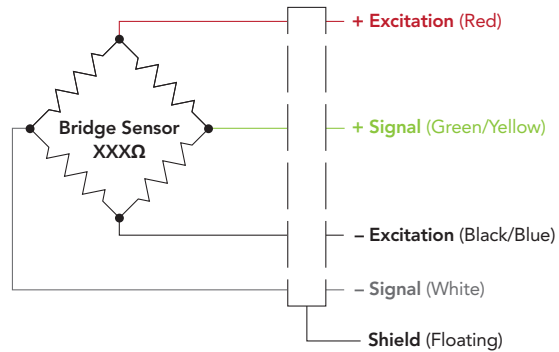


CAPACITIES

Lb	N	Rated Output (mV/V) nom	Non-linearity (% of RO)	Hysteresis (% of RO)	Shunt Value (K ohm)	Natural Frequency (kHz)
5	22	1	\pm 0.5	\pm 0.5	301	11
10	44	2	\pm 0.5	\pm 0.5	150	11
25	110	2	\pm 0.6	\pm 0.6	150	19
50	220	2	\pm 0.6	\pm 0.6	150	28
100	450	2	\pm 0.6	\pm 0.6	150	39
150	670	2	\pm 0.6	\pm 0.6	150	45
250	1100	2	\pm 0.6	\pm 0.6	150	52

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.



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RoHS



U.S. Manufacturer