10 Thomas, Irvine, CA 92618 USA
Email: futek@futek.com

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MODEL LCA310

Load Column Load Cell – Miniature



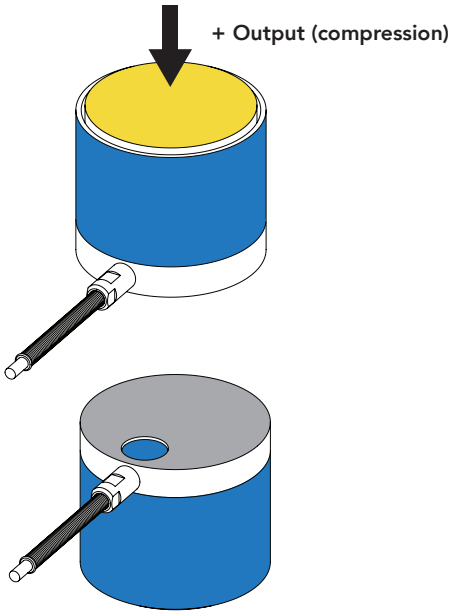
FEATURES

- Fast response time,
- Superior natural frequency
- Low deflection
- Small profile for tight spaces

Active end

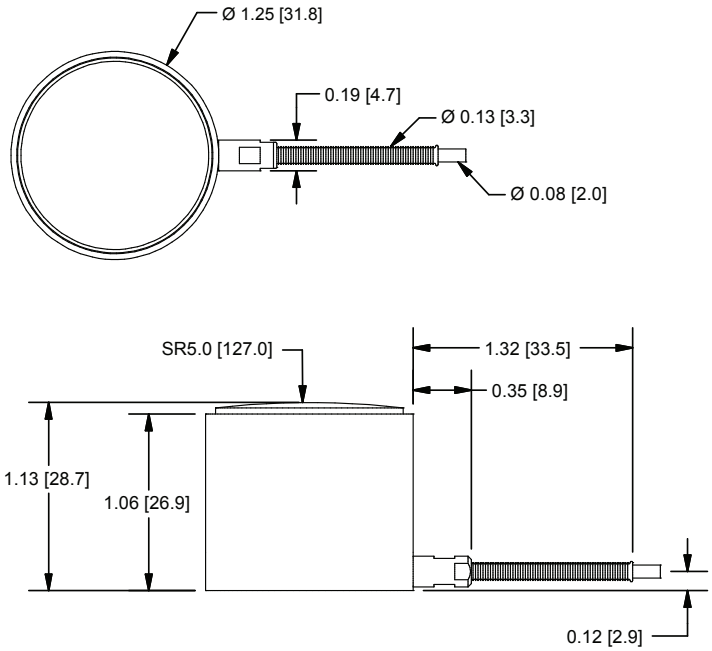
Fixed end

Non-loading surface, do not contact



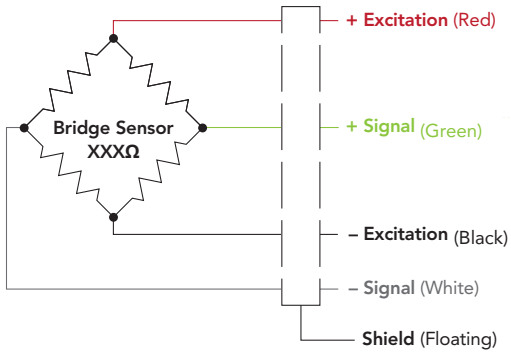
SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.25% of RO
ELECTRICAL	
Rated Output (RO)	2 mV/V nom
Excitation (VDC or VAC)	18 max
Bridge Resistance	350 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#29 AWG, 4 conductor, spiral shielded Teflon cable 10 ft [3 m] long
Wiring Code	WC1
MECHANICAL	
Weight	0.33 lb
Safe Overload	150% of RO
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	±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	60.4 kOhm

DIMENSIONS inches [mm]



WIRING CODE (WC1 WITH SHIELD)

RED	+ EXCITATION
BLACK	– EXCITATION
GREEN	+ SIGNAL
WHITE	– SIGNAL
SHIELD	FLOATING



CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (Hz)
FSH04431	15000	66720	0.003	22000
FSH04432	30000	133400	0.004	24300

Drawing Number: FI1170-D

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10 Thomas, Irvine, CA 92618 USA
Tel: (949) 465-0900
Fax: (949) 465-0905

www.futek.com

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