

## **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 + Output (compression)

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

Sensor Solution Source Load · Torque · Pressure · Multi-Axis · Calibration · Instruments · Software

www.futek.com



 Via Paolo Uccello 4 - 20148 Milano

 sensori & trasduttori
 Tel +39 02 48 009 757
 Fax +39 02 48 002 070







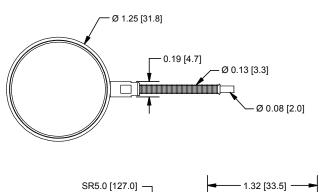


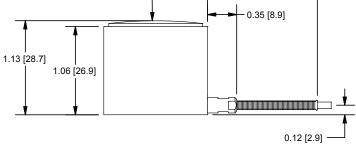
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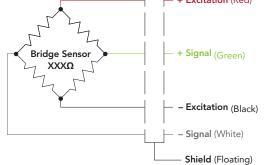
# Model LCA310

DIMENSIONS inches [mm]





WIRING CODE (WC1 WITH SHIELD)			
RED	+ EXCITATION		
BLACK	– EXCITATION		
GREEN	+ SIGNAL		
WHITE	– SIGNAL		
SHIELD	FLOATING		
	+ Excitation (Red)		



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

### Drawing Number: FI1170-D

FUTEK reserves the right to modify its design and specifications without notice.

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DSPM Indurfina\* Via Paolo Uccello 4 - 20148 Milano Tel +39 02 48 009 757 Fax +39 02 48 002 070





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