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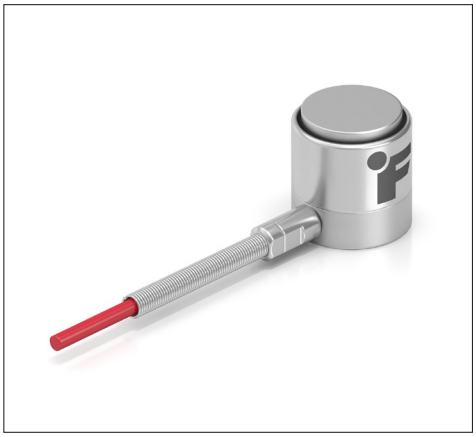
MODEL LCA300

Miniature Load Column Load Cell



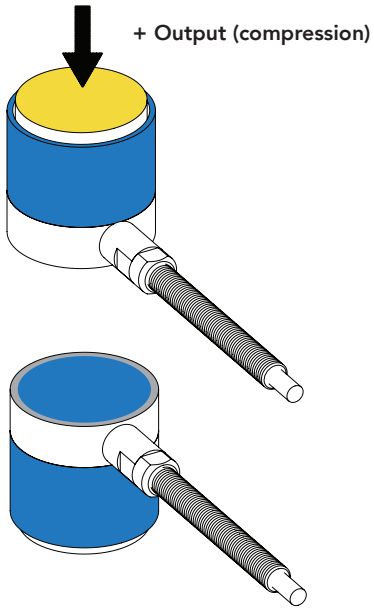
FEATURES

- Fast response time
- Superior natural frequency
- Low deflection
- Small profile for tight spaces
- Fully welded construction

Active end

Fixed end

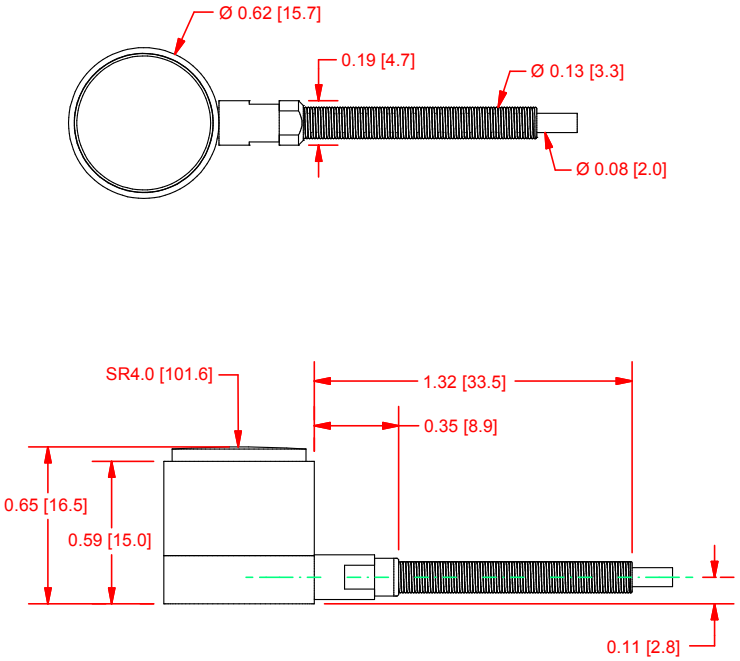
Non-loading surface, do not contact



SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.25% of RO
ELECTRICAL	
Rated Output (RO)	1.3 mV/V (2000 lb) 2 mV/V (3000–5000 lb) 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	0.1 lb [45 g]
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	100 kOhm (2000 lb) 60.4 kOhm (3000–5000 lb)
CONFORMITY	
RoHS	EU 2015/863
CE	EN55011; EN61326-1

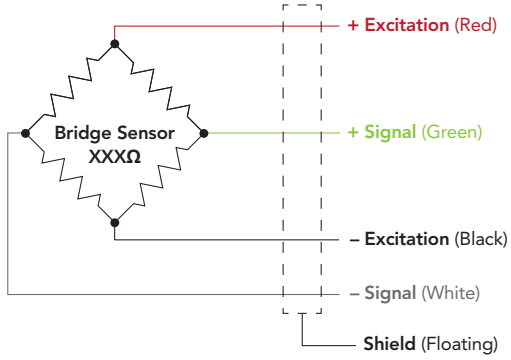
DIMENSIONS inches [mm]

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



WIRING CODE (WC1 WITH SHIELD)

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



CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (Hz)
FSH04635	2000	8896	0.001	38000
FSH04636	3000	13344	0.002	38000
FSH04637	5000	22240	0.002	43000

Drawing Number: FI1465-A

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CE RoHS ANSI Z540-1 ISO 17025 ISO 9001 ISO 13485 U.S. Manufacturer