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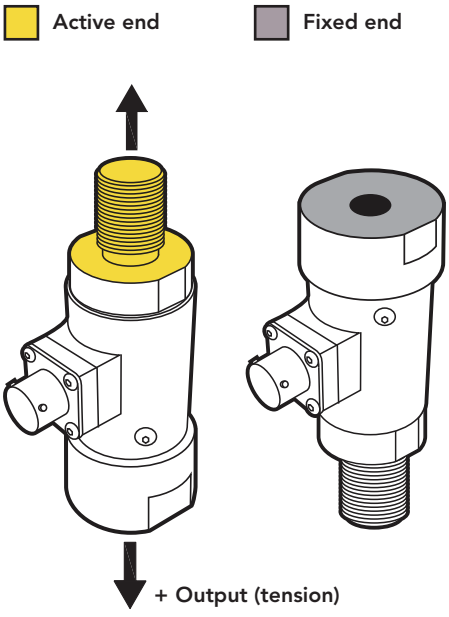
MODEL LCB450

Fatigue Rated Rod End Load Cell Tension and Compression



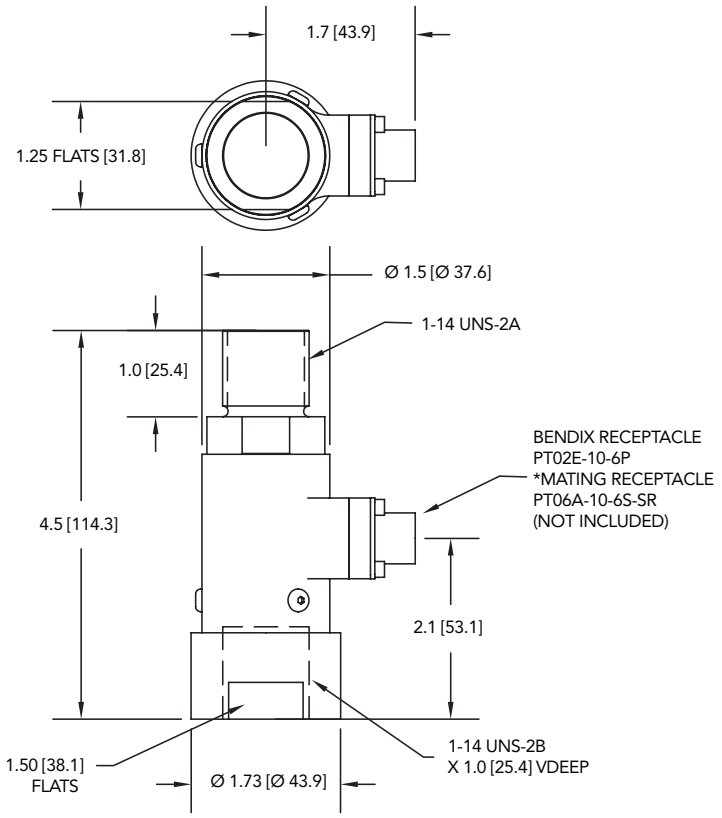
FEATURES

- Light weight
- Low deflection, light weight
- For use in both tension and compression
- Can easily thread in line into a threaded rod or actuator



SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.1% 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	6 Pin BENDIX Receptacle (PT02E)
Connector Code	CC1 Standard/CC1T Available
MECHANICAL	
Weight	20 oz [567 g]
Safe Overload	300% 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	±0.005% of RO/°F [0.01% of RO/°C]
CALIBRATION	
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt tension
Calibration (available)	Compression
Shunt Calibration Value	60.4 kOhm
CONFORMITY	
RoHS	2011/65/EU
CE	EN55011:2009; EN61326-1:2006

DIMENSIONS inches [mm]

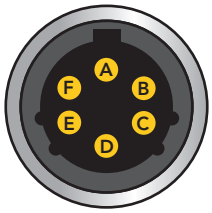


CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (Hz)
FSH04002	5000	22240	0.0014	7200
FSH04003	10000	44480	0.0020	8600
FSH04004	20000	88960	0.0032	9600

BENDIX 6-PIN

PIN	COLOR	DESCRIPTION	TEDS DESCRIPTION
A	Red	+ Excitation	+ Excitation
B	Black	– Excitation	– Excitation
C	Green	+ Signal	+ Signal
D	White	– Signal	– Signal
E	Orange	+ Sense	TEDS Data
F	Blue	– Sense	TEDS Ground



Sensor Receptacle View

Drawing Number: FI1409-A

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