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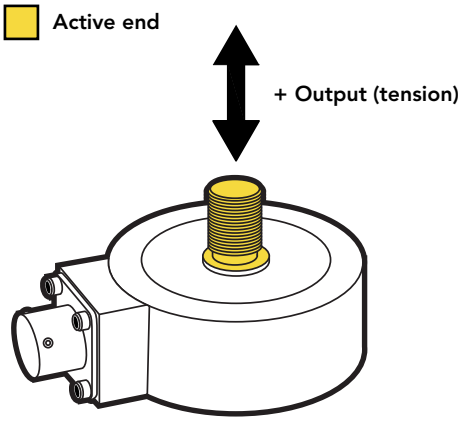
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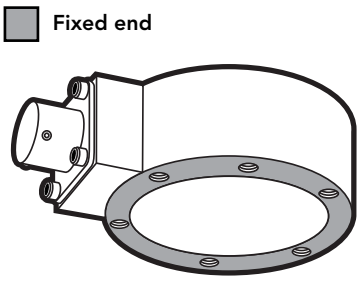
MODEL LCB500
Rod End Load Cell



FEATURES

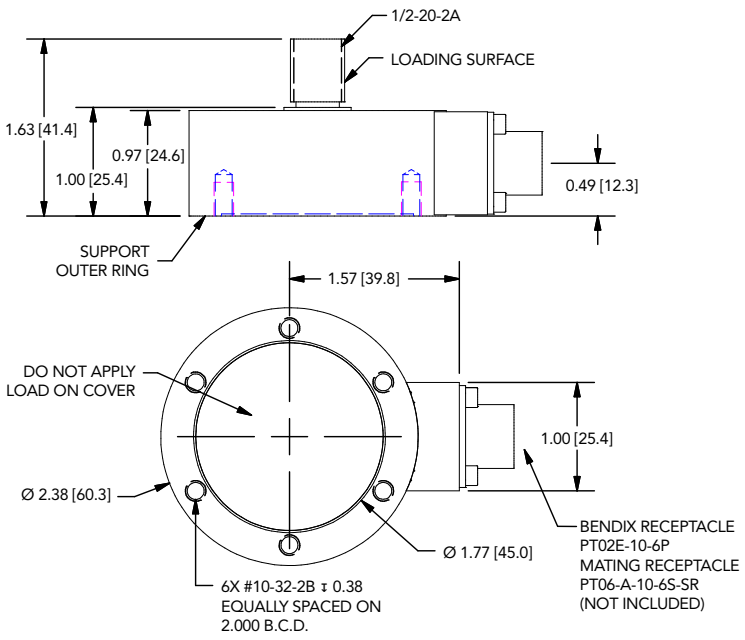
- One piece construction
- Low deflection
- For use in both tension and compression
- Low profile





SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.25% of RO
Hysteresis	±0.25% of RO
Nonrepeatability	±0.1% of RO
ELECTRICAL	
Rated Output (RO)	0.75 mV/V (100, 500 lb) 1 mV/V (2000 lb) 1.5 mV/V (200, 1000, 3000, 5000 lb)
Excitation (VDC or VAC)	18 max
Bridge Resistance	700 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	6 Pin BENDIX Receptacle (PT02E)
Connector Code	CC1 Standard/CC1T Available
MECHANICAL	
Weight (approximate)	0.86 lb [0.39 kg]
Safe Overload	150% of RO
Material	17-4 PH stainless-steel
IP Rating	IP64
TEMPERATURE	
Operating Temperature	0 to 200°F [-18 to 93°C]
Compensated Temperature	60 to 160°F [15 to 72°C]
Temperature Shift Zero	±0.0025% of RO/°F [0.005% of RO/°C]
Temperature Shift Span	±0.0025% of Load/°F [0.005% of Load/°C]
CALIBRATION	
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt compression
Calibration (available)	Tension and Compression
Shunt Calibration Value	150 kOhm (200, 1000, 3000, 5000 lb) 200 kOhm (100, 500, 2000 lb)

DIMENSIONS inches [mm]

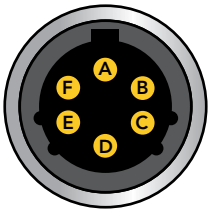


CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (Hz)
FSH04160	100	445	0.0019	1700
FSH04161	200	890	0.0017	2600
FSH04162	500	2224	0.0014	4500
FSH04163	1000	4448	0.0014	6200
FSH04164	2000	8896	0.0012	9200
FSH04165	3000	13340	0.0010	10000
FSH04166	5000	22241	0.0020	10500

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: FI1466

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