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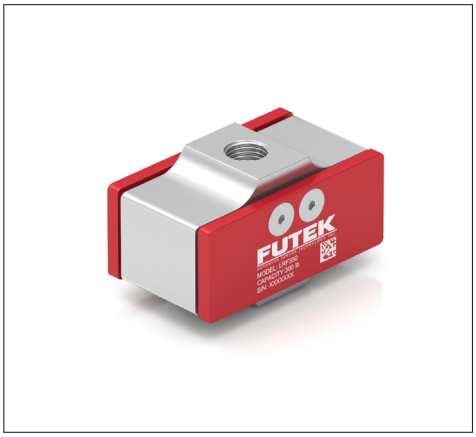
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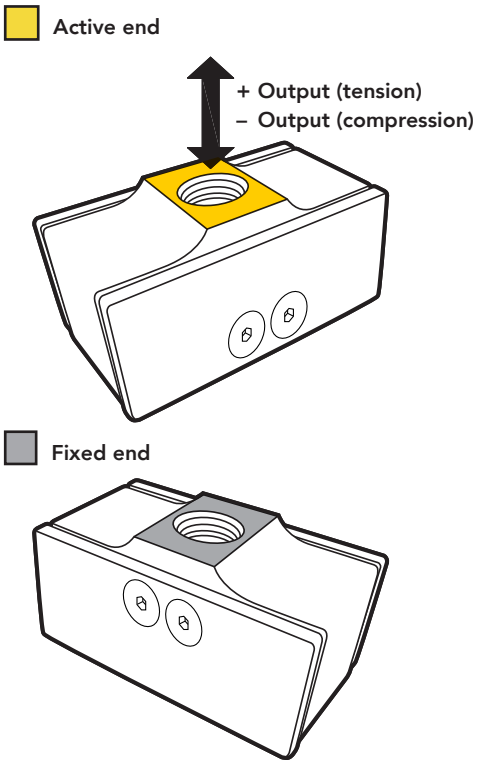
FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

MODEL LRF350
Low Profile Load Cell



FEATURES

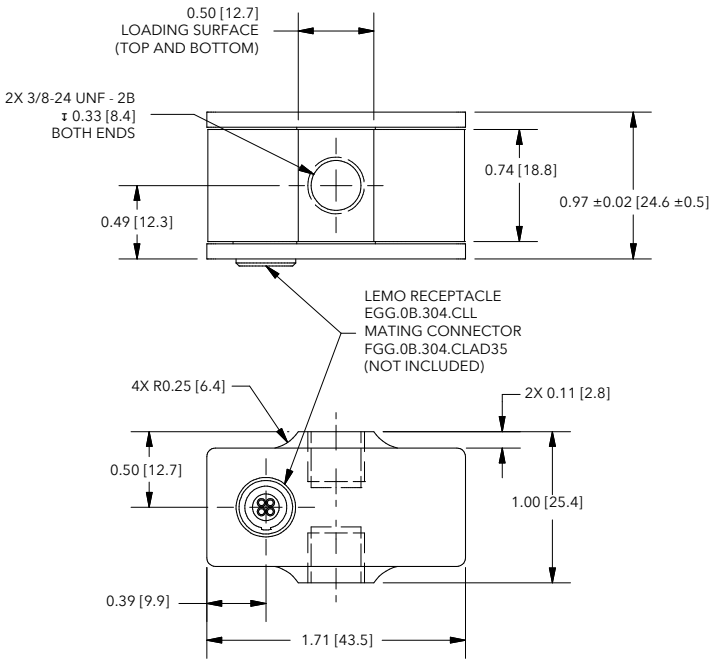
- For use in both tension and compression
- Low profile
- 3 mV/V High Level Output
- Natural Frequency up to 11 kHz
- High accuracy
- Easy to integrate on flat loading surfaces



SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.1% of RO
Hysteresis	±0.1% of RO
Nonrepeatability	±0.05% of RO
Creep	±0.05% of RO
ELECTRICAL	
Rated Output (RO)	3 mV/V nom
Excitation (VDC or VAC)	18 max
Bridge Resistance	350 Ohm nom
Insulation Resistance	≥500 Mohm @ 50 VDC
Connection	4 Pin LEMO Receptacle
Connector Code	CC4
MECHANICAL	
Weight (approximate)	2 oz (200-300 lb) [56.7g] 5 oz (500-1000 lb) [141g]
Safe Overload	150% of RO
Material	200 lb, 300 lb: Aluminum 500 lb, 1000 lb: Stainless Steel Cover red anodized aluminum
IP Rating	IP40
TEMPERATURE	
Operating Temperature	-60 to 200°F [-51 to 93°C]
Compensated Temperature	60 to 160°F [16 to 71°C]
Temperature Shift Zero	±0.005% of RO/°F [0.01% of RO/°C]
Temperature Shift Span	±0.005% of Load/°F [0.01% of Load/°C]
CALIBRATION	
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt tension
Calibration (available)	Tension and Compression
Shunt Calibration Value	43.575 kOhm
CONFORMITY	
RoHS	EU 2015/863
CE	EN55011; EN61326-1

DIMENSIONS inches [mm]

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

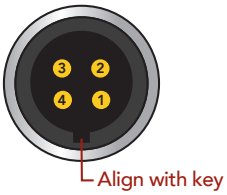


CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (Hz)
FSH04730	200	890	0.0031	7800
FSH04731	300	1334	0.0025	10300
FSH04732	500	2224	0.0035	6900
FSH04733	1000	4450	0.0025	11000

LEMO 4-PIN (CC4)

PIN	COLOR	DESCRIPTION
1	Red	+ Excitation
2	Green	+ Signal
3	White	– Signal
4	Black	– Excitation



Drawing Number: FI1434-A

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