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FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

MODEL MBA400
Biaxial Load Arm



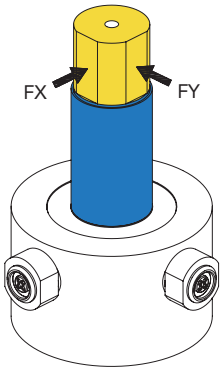
FEATURES

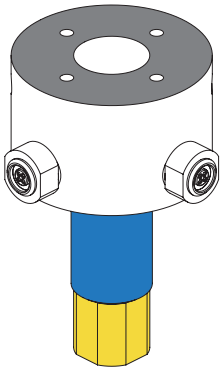
- Measures Fx and Fy loads
- Ideal for high speed planar force measurements for automation systems
- Ideal for embedded automotive and aircraft control stick force measurement

Non-loading surface, do not contact

Active End

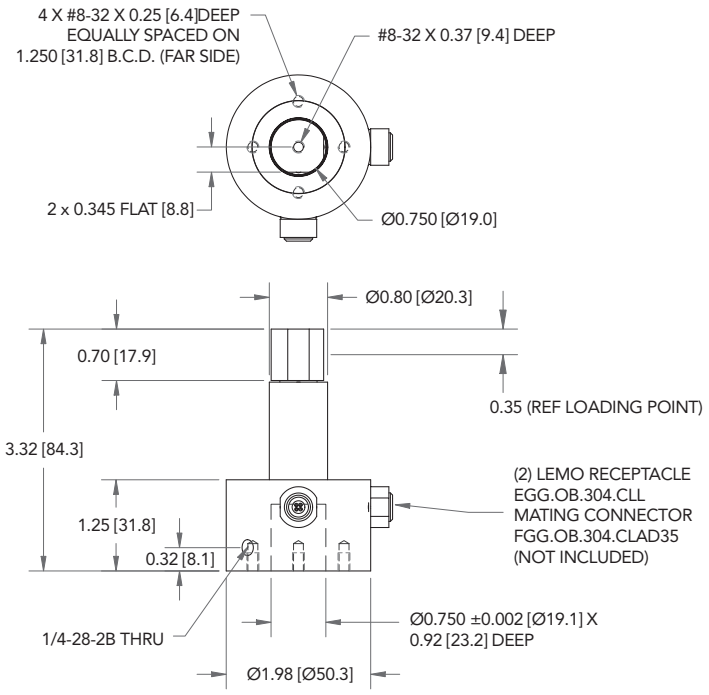
Fixed End





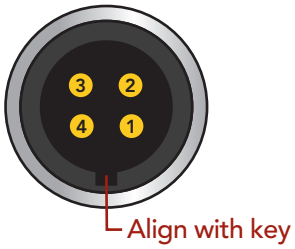
SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.1% of RO
ELECTRICAL	
Rated Output (RO)	2 mV/V nom (50 lb) 3 mV/V nom (200 lb)
Excitation (VDC or VAC)	18 max
Bridge Resistance	350 Ohm
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	4 Pin LEMO receptacle EGG.0B.304.CLL
Connector Code	CC4
MECHANICAL	
Weight (approximate)	16 oz (454 g)
Safe Overload	150% of RO
Material	Stainless-steel
IP Rating	IP50
TEMPERATURE	
Operating Temperature	-60 to 200°F (-51 to 93°C)
Compensated Temperature	60 to 160°F (15 to 72°C)
Temperature Shift Zero	±0.025% of RO/°F (0.045% of RO/°C)
Temperature Shift Span	±0.01% of Load/°F (0.018% of Load/°C)
CALIBRATION	
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt Tension
Calibration (available)	Compression
Shunt Calibration Value	60.4 kOhm (50 lb) 43.575 kOhm (200 lb)
CONFORMITY	
RoHS	2011/65/EU
CE	EN55011:2009; EN61326-1:2006

DIMENSIONS inches [mm]



LEMO 4-PIN (CC4)

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



Sensor Receptacle
View

CAPACITIES

ITEM #	lb	Deflection (in)	Natural Frequency (Hz)
FSH03934	50	0.0078	800
FSH04054	200	0.011	1300

Drawing Number: FI1230-B

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