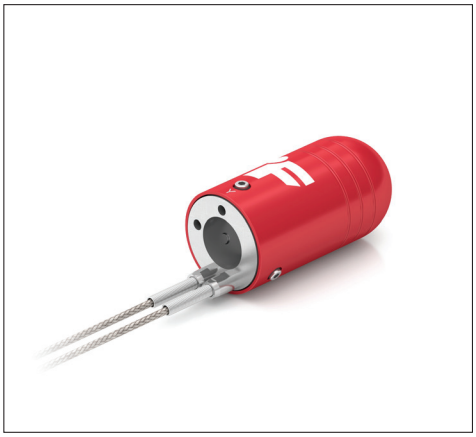
MODEL MAU300

Stick Shift / Gear Shift Knob Load Cell

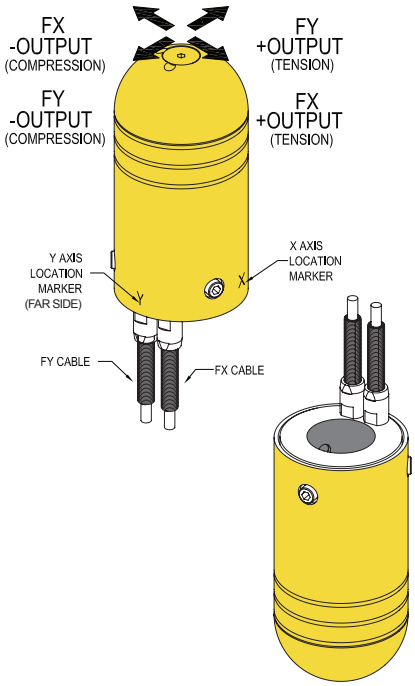


FEATURES

- Ideal for pitch control testing, cyclic stick testing, and joy-stick fly-by-wire testing applications
- Intended for manual use/human testing
- Ideal for aerospace control stick pull/push force auditing
- Lightweight profile
- Quick responses that reflect every human interaction

Active end

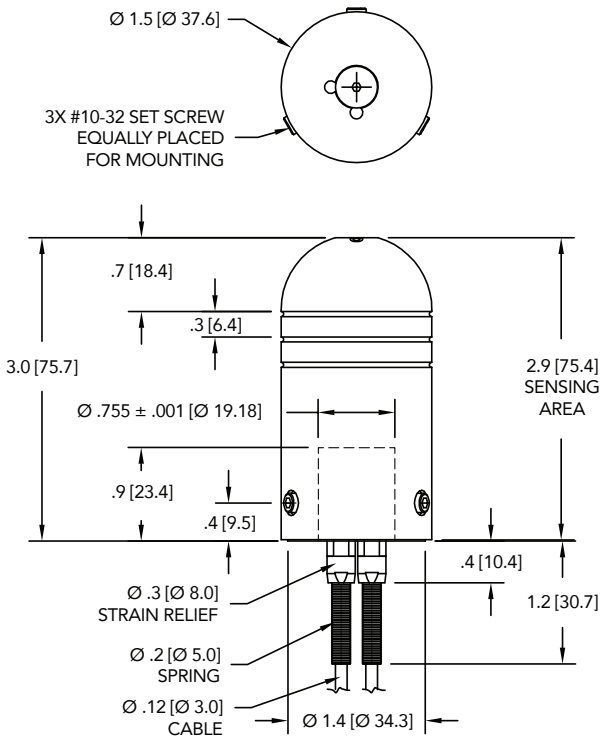
Fixed end



SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.25% of RO
Nonrepeatability	±0.25% of RO
ELECTRICAL	
Rated Output (RO)	2 mV/V nom
Excitation (VDC or VAC)	20 max
Bridge Resistance	350 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#28 AWG, 4 conductor braided shielded PVC cable 10 ft [3 m] long
Wiring Code	WC1
MECHANICAL	
Weight	9 oz (255 g)
Safe Overload	150% of RO
Material	Aluminum, red anodized
IP Rating	IP40
TEMPERATURE	
Operating Temperature	-40 to 160°F [-40 to 71°C]
Compensated Temperature	60 to 160°F [15 to 71°C]
Temperature Shift Zero	±0.02% of RO/°F [0.036% 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 Tension
Calibration (available)	5-pt Compression and Tension
Shunt Calibration Value	60.4 kOhm
CONFORMITY	
RoHS Compliant	2011/65/EU & 2015/863
CE	EN55011; EN61326-1

DIMENSIONS inches [mm]

TOLERANCE:
.X ± .1" [2.5]
.XX ± .01" [0.25]
.XXX ± .005" [0.127]

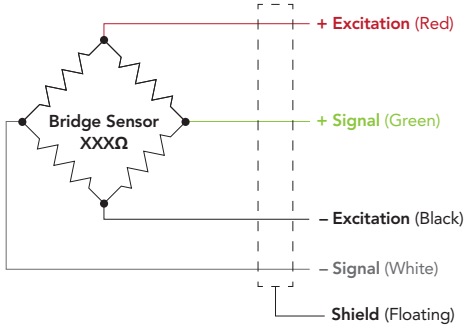


CAPACITIES

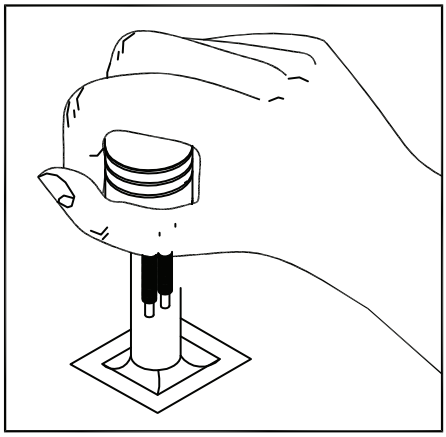
ITEM #	lb	N	Deflection (Fx / Fy) [mm]	Natural Frequency (Hz)
FSH04423	100	445	0.009 [0.2]	600
FSH04424	200	890	0.0065 [0.17]	1400

WIRING CODE (WC1 WITH SHIELD)

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



STICK SHIFT APPLICATION



Drawing Number: FI1506-A

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