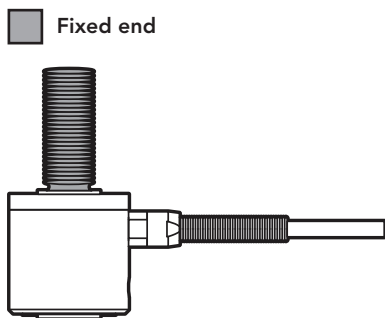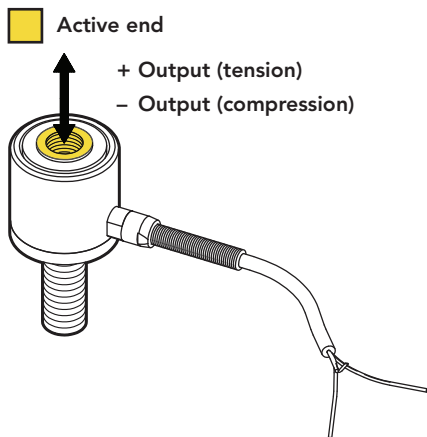## FEATURES

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

Active end

+ Output (tension)
– Output (compression)

Fixed end

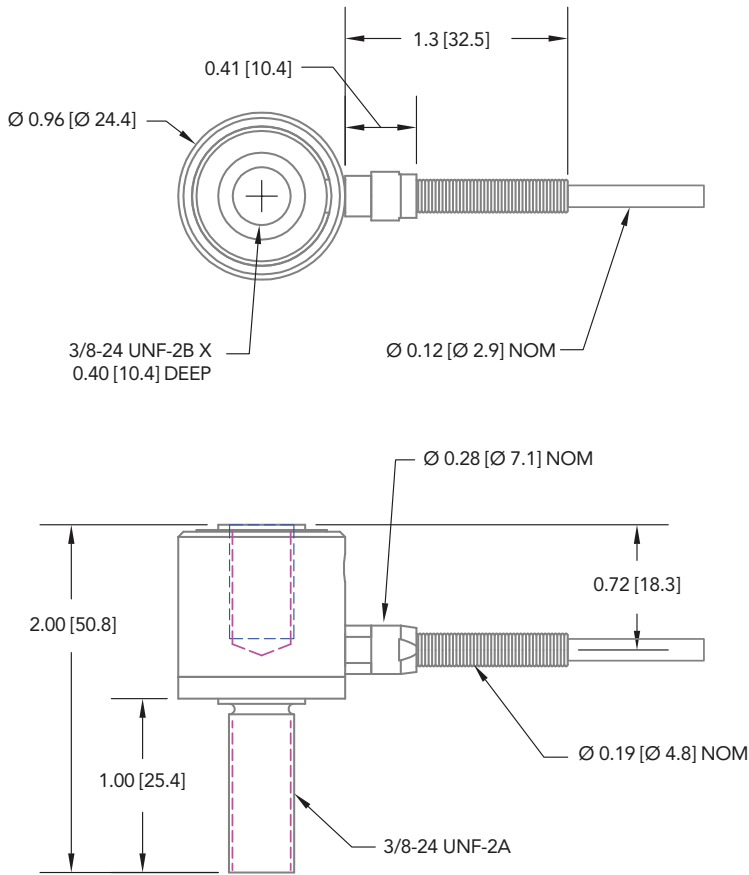| SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.1% of RO
ELECTRICAL	
Rated Output (RO)	1 mV/V (1000 lb)
	2 mV/V (2000 lb)
	3 mV/V (3000 lb)
Excitation (VDC or VAC)	18 max
Bridge Resistance	1000 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#28 AWG, 4 conductor, shielded PVC cable 10 ft [3 m] long
Wiring Code	WC1
MECHANICAL	
Weight	3.5 oz [99 g]
Safe Overload	150% of RO
Material	17-4 PH stainless-steel
IP Rating	IP64
TEMPERATURE	
Operating Temperature	-45 to 200°F [-42 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]
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	301 kOhm (1000 lb)
	150 kOhm (2000 lb)
	100 kOhm (3000 lb)
CONFORMITY	
RoHS	2011/65/EU
CE	EN55011:2009; EN61326-1:2006

DIMENSIONS inches [mm]

Ø 0.96 [Ø 24.4]

0.41 [10.4]

1.3 [32.5]

3/8-24 UNF-2B X
0.40 [10.4] DEEP

Ø 0.12 [Ø 2.9] NOM

Ø 0.28 [Ø 7.1] NOM

2.00 [50.8]

0.72 [18.3]

1.00 [25.4]

Ø 0.19 [Ø 4.8] NOM

3/8-24 UNF-2A

WIRING CODE (WC1 WITH SHIELD)

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

+ Excitation (Red)

Bridge Sensor
XXXΩ

+ Signal (Green/Yellow)

– Excitation (Black/Blue)

– Signal (White)

Shield (Floating)
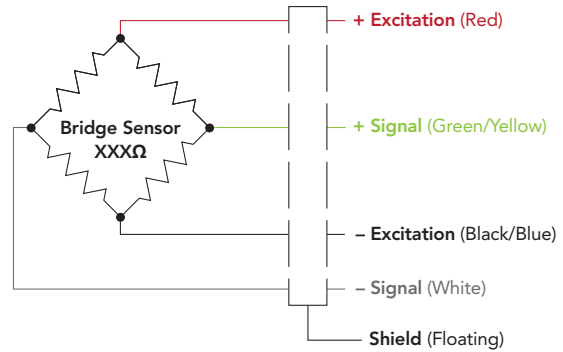
CAPACITIES				
ITEM #	**lb**	**N**	**Deflection (in)**	**Natural Frequency (Hz)**
FSH04011	1000	4448	0.0005	21100
FSH04013	2000	8896	0.0010	21100
FSH04014	3000	13344	0.0015	21100

Drawing Number: FI1407-C

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