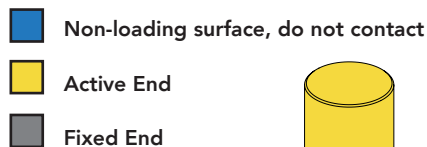


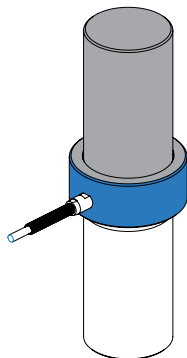
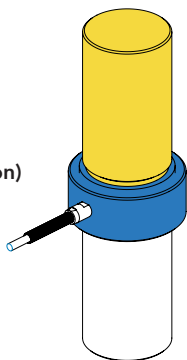


## FEATURES

- Miniature Size
- Fast response and low deflection
- Notable Nonlinearity
- Robust cable strain relief
- For use in both tension and compression



+ Output (tension)  
- Output (compression)



## SPECIFICATIONS

### PERFORMANCE

|                  |             |
|------------------|-------------|
| Nonlinearity     | ±0.2% of RO |
| Hysteresis       | ±0.2% of RO |
| Nonrepeatability | ±0.1% of RO |

### ELECTRICAL

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| Rated Output (RO)       | 2 mV/V nom                                                         |
| Excitation (VDC or VAC) | 18 max                                                             |
| Bridge Resistance       | 350 Ohm nom                                                        |
| Insulation Resistance   | ≥500 MOhm @ 50 VDC                                                 |
| Connection              | #24 AWG, 4 conductor, braided shielded PVC cable, 10 ft [3 m] long |

Wiring/Connector Code

WC1

### MECHANICAL

|                      |                         |
|----------------------|-------------------------|
| Weight (approximate) | 3.1 lb [1.4 kg]         |
| Safe Overload        | 150% of RO              |
| Deflection           | 0.005 in [0.13 mm] nom  |
| Material (flexure)   | 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  | ±0.005% of Load/°F (0.01% of Load/°C) |

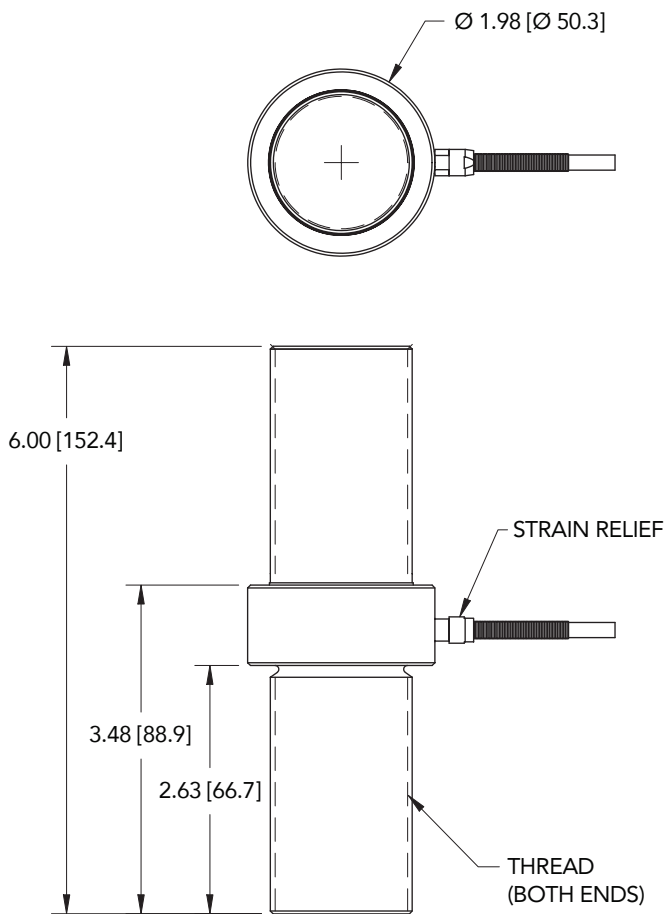
### CALIBRATION

|                             |              |
|-----------------------------|--------------|
| Calibration Test Excitation | 10 VDC       |
| Calibration (standard)      | 5-pt Tension |
| Calibration (available)     | Compression  |
| Shunt Calibration Value     | 60.4 kOhm    |

### CONFORMITY

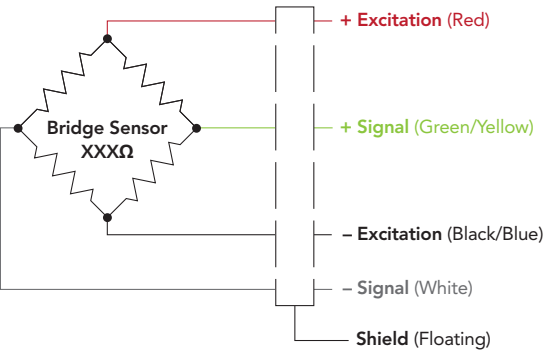
|      |                    |
|------|--------------------|
| RoHS | EU 2015/863        |
| CE   | EN55011; EN61326-1 |

DIMENSIONS inches [mm]



WIRING CODE (WC1 WITH SHIELD)

|        |              |
|--------|--------------|
| RED    | + EXCITATION |
| BLACK  | - EXCITATION |
| GREEN  | + SIGNAL     |
| WHITE  | - SIGNAL     |
| SHIELD | FLOATING     |



CAPACITIES

| ITEM #   | klb | kN    | Thread   | Natural Frequency (kHz) |
|----------|-----|-------|----------|-------------------------|
| FSH04090 | 50  | 222.4 | 1 1/2-12 | 8.1                     |
| FSH04091 | 50  | 222.4 | M36x4    | 8.1                     |

Drawing Number: FI1447-B

FUTEK reserves the right to modify its design and specifications without notice.  
Please visit [www.futek.com/salesterms](http://www.futek.com/salesterms) for complete terms and conditions.

10 Thomas, Irvine, CA 92618 USA

Tel: (949) 465-0900

Fax: (949) 465-0905

[www.futek.com](http://www.futek.com)



RoHS



U.S. Manufacturer