



## FEATURES

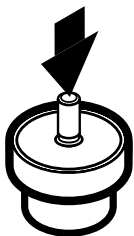
- Fully internally temperature compensated (no external conditioning circuitry)
- Subminiature / light weight
- Low deflection / fast response
- 17-4 PH stainless-steel construction
- For use in compression
- Utilizes metal foil strain gauge technology
- Bottom cable exit

 Non-loading surface, do not contact

 Active End



Top view



+ Output (compression)

## SPECIFICATIONS

### PERFORMANCE

|                  |             |
|------------------|-------------|
| Nonlinearity     | ±0.5% of RO |
| Hysteresis       | ±0.5% of RO |
| Nonrepeatability | ±0.1% of RO |

### ELECTRICAL

|                         |                                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Rated Output (RO)       | 1.5 mV/V nom                                                          |
| Excitation (VDC or VAC) | 7 max                                                                 |
| Bridge Resistance       | 350 Ohm nom                                                           |
| Insulation Resistance   | ≥500 MOhm @ 50 VDC                                                    |
| Connection              | #29 AWG, 4 conductor, spiral shielded silicone cable 10-ft [3 m] long |

|                       |     |
|-----------------------|-----|
| Wiring/Connector Code | WC1 |
|-----------------------|-----|

### MECHANICAL

|                      |                         |
|----------------------|-------------------------|
| Weight (approximate) | 1 oz [28 g]             |
| Safe Overload        | 150% of RO              |
| Deflection           | 0.0007 in               |
| Material             | 17-4 PH stainless-steel |
| IP Rating            | IP64                    |

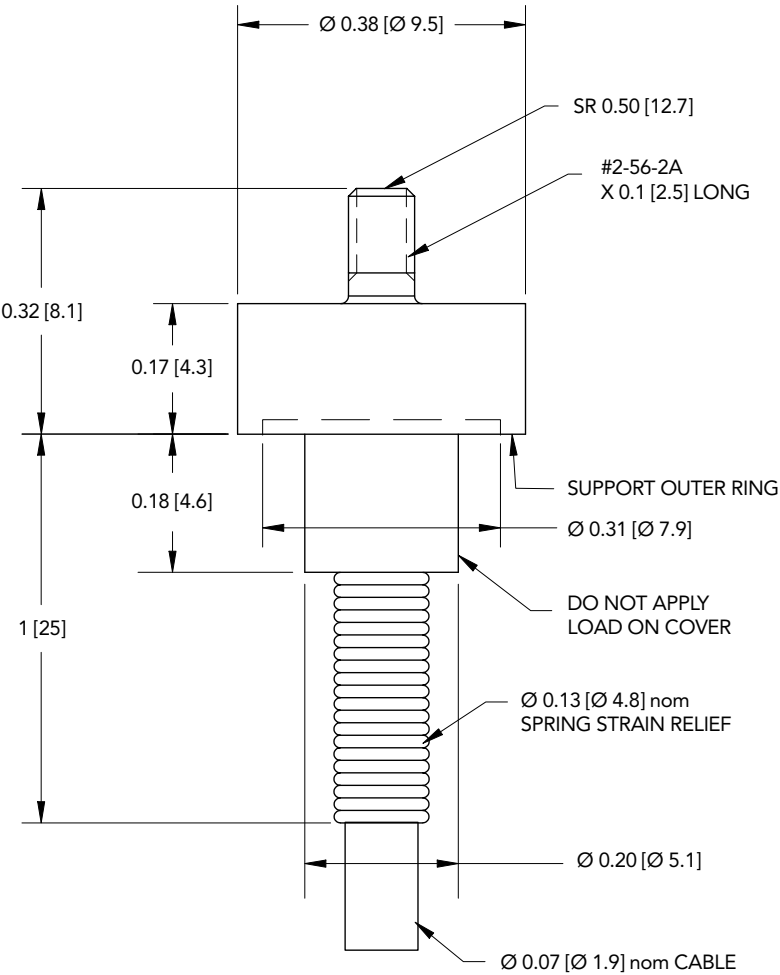
### TEMPERATURE

|                         |                                        |
|-------------------------|----------------------------------------|
| Operating Temperature   | −60 to 200°F (−50 to 93°C)             |
| Compensated Temperature | 60 to 160°F (15 to 72°C)               |
| Temperature Shift Zero  | ±0.01% of RO/°F (±0.018% of RO/°C)     |
| Temperature Shift Span  | ±0.02% of Load/°F (±0.036% of Load/°C) |

### CALIBRATION

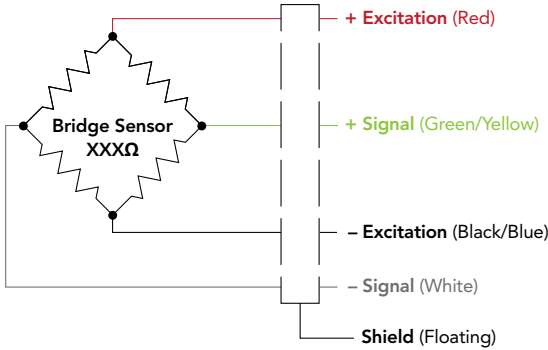
|                             |                  |
|-----------------------------|------------------|
| Calibration Test Excitation | 5 VDC            |
| Calibration (standard)      | 5-pt Compression |
| Shunt Calibration Value     | 60.4 kOhm        |

DIMENSIONS inches [mm]



WIRING CODE (WC1 WITH SHIELD)

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



CAPACITIES

| ITEM #   | lb | N    | Natural Frequency (kHz) |
|----------|----|------|-------------------------|
| FSH02708 | 10 | 44.5 | 13.7                    |
| FSH02709 | 25 | 111  | 22                      |
| FSH02710 | 50 | 222  | 31                      |

Drawing Number: FI1258-C

FUTEK reserves the right to modify its design and specifications without notice.  
Please visit <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)



U.S. Manufacturer