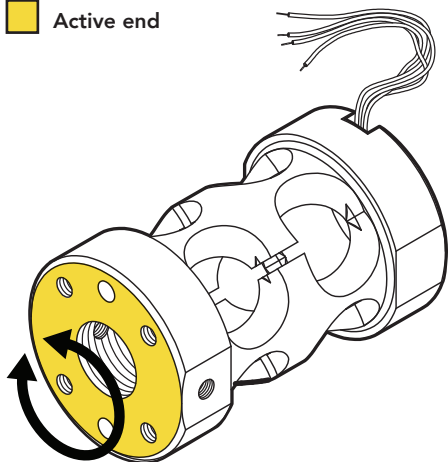




## FEATURES

- Easily integrates into OEM applications
- Intended for high volume applications
- Aluminum construction
- .5 inch through holes
- Designed for Torque auditing
- Uses strain gauge technology

 Active end



– Output (CCW)  
+ Output (CW)

## SPECIFICATIONS

### PERFORMANCE

|                  |              |
|------------------|--------------|
| Nonlinearity     | ±0.2% of RO  |
| Hysteresis       | ±0.2% of RO  |
| Nonrepeatability | ±0.05% of RO |

### ELECTRICAL

|                         |                                                                   |
|-------------------------|-------------------------------------------------------------------|
| Rated Output (RO)       | 2 mV/V nom                                                        |
| Excitation (VDC or VAC) | 18 max                                                            |
| Bridge Resistance       | 1000 Ohm nom                                                      |
| Connection              | #29 AWG, 4 conductor, spiral Teflon cable<br>6 in [152.4 mm] long |
| Wiring Code             | WC1                                                               |

### MECHANICAL

|                      |                 |
|----------------------|-----------------|
| Weight (approximate) | 2.3 oz [65.2 g] |
| Safe Overload        | 150% of RO      |
| Material             | Aluminum        |
| IP Rating            | IP00            |

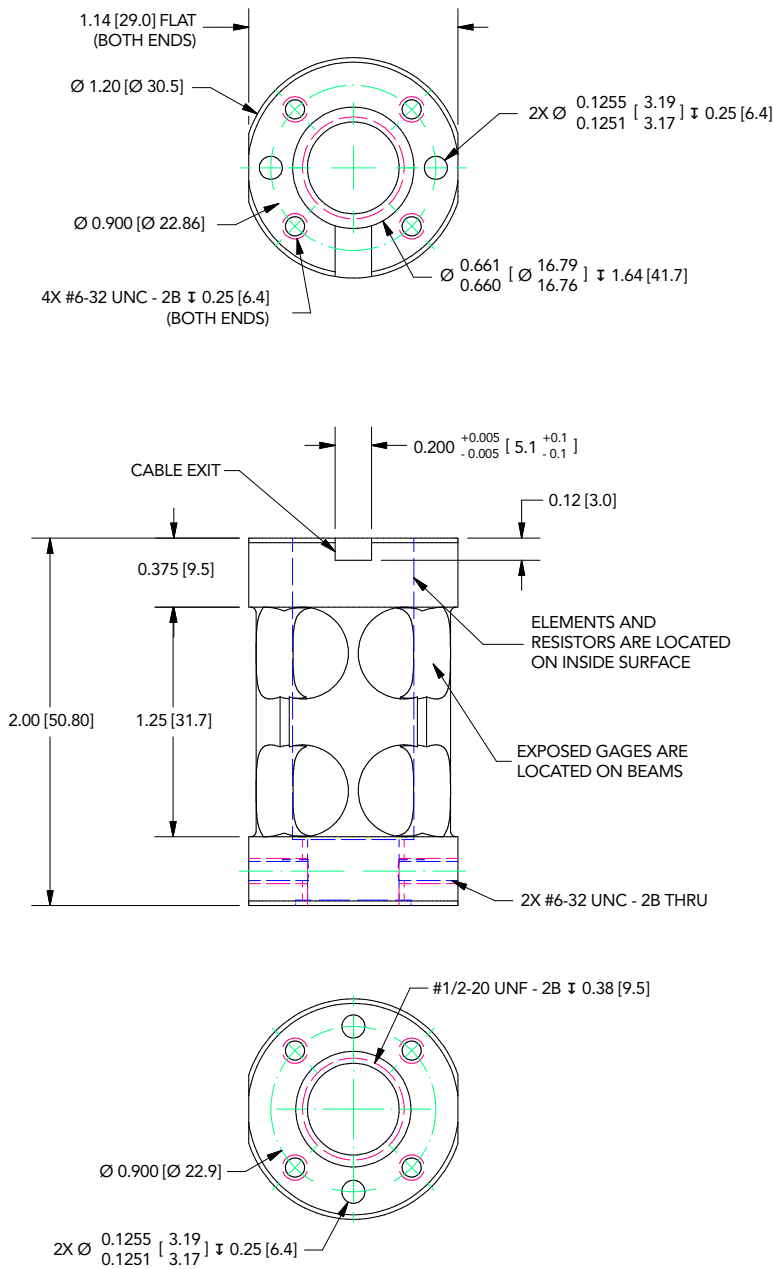
### TEMPERATURE

|                         |                                         |
|-------------------------|-----------------------------------------|
| Operating Temperature   | –60 to 200°F (–50 to 93°C)              |
| Compensated Temperature | 60 to 160°F (15 to 72°C)                |
| Temperature Shift Zero  | ±0.002% of RO/°F (0.0036% of RO/°C)     |
| Temperature Shift Span  | ±0.002% of Load/°F (0.0036% of Load/°C) |

### CALIBRATION

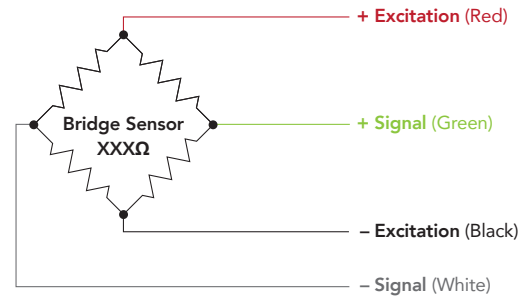
|                             |                            |
|-----------------------------|----------------------------|
| Calibration Test Excitation | 10 VDC                     |
| Calibration (standard)      | Certificate of Conformance |
| Calibration (available)     | 5-pt CW & CCW              |
| Shunt Calibration Value     | 150 kOhm                   |

## DIMENSIONS inches [mm]



## WIRING CODE (WC1)

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



## CAPACITIES

| ITEM #   | in-oz     | Nm   | Torsional Stiffness in-oz/rad | Natural Frequency (Hz) |
|----------|-----------|------|-------------------------------|------------------------|
| FSH04055 | 20        | 0.14 | 950                           | 263                    |
| FSH04056 | 50        | 0.35 | 3360                          | 493                    |
| FSH04057 | 12 in-lb  | 1.36 | 1170 in-lb/rad                | 1155                   |
| FSH04058 | 50 in-lb  | 5.65 | 8090 in-lb/rad                | 2941                   |
| FSH04059 | 100 in-lb | 11.3 | 16700 in-lb/rad               | 4159                   |

Drawing Number: FI1440-A

FUTEK reserves the right to modify its design and specifications without notice.