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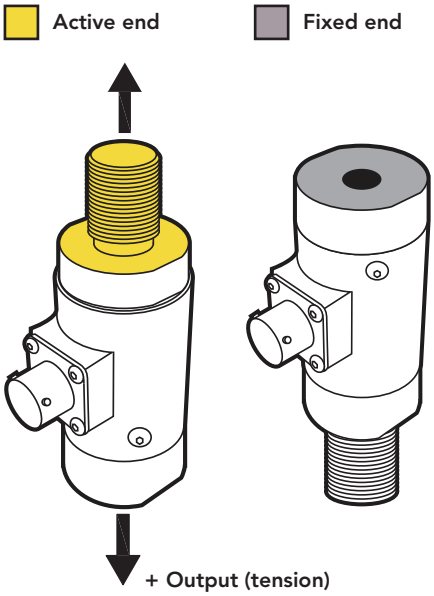
MODEL LCB400

# Rod End Load Cell Tension and Compression



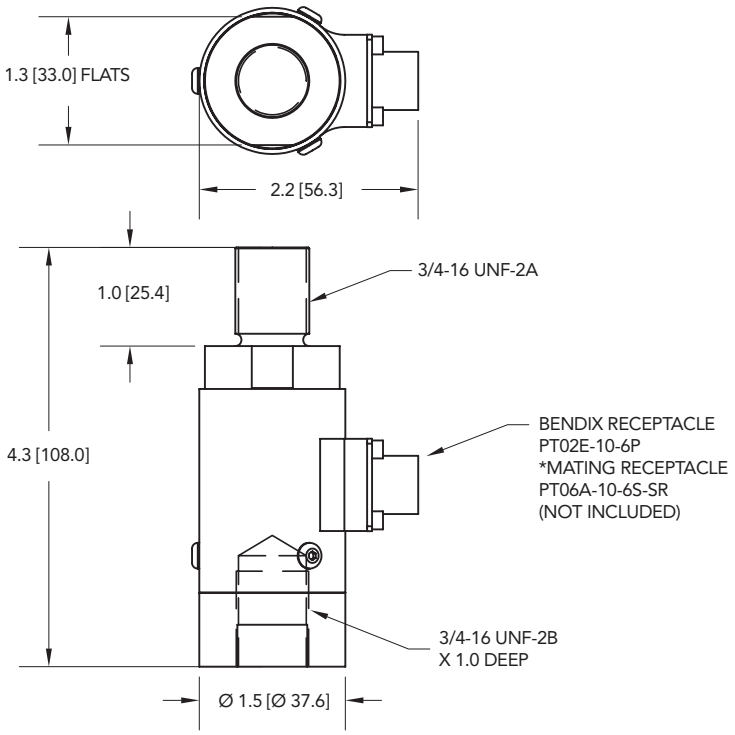
## FEATURES

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




| SPECIFICATIONS | |
|---|---|
| **PERFORMANCE** | |
| Nonlinearity | ±0.5% of RO |
| Hysteresis | ±0.5% 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 | 6 Pin BENDIX Receptacle (PT02E) |
| Connector Code | CC1 Standard/CC1T Available |
| **MECHANICAL** | |
| Weight | 7 oz [195 g] (1000 lb)<br>17 oz [481 g] (3000, 10000 lb) |
| Safe Overload | 150% of RO |
| Material | 2024-T4 (1000 lb)<br>17-4 PH stainless-steel (3000,10000 lb) |
| 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 | ±0.005% 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 | 60.4 kOhm |
| **CONFORMITY** | |
| RoHS | 2011/65/EU |
| CE | EN55011:2009; EN61326-1:2006 |

## DIMENSIONS inches [mm]

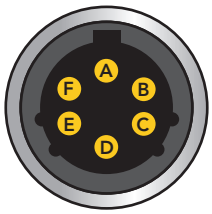



## CAPACITIES

| ITEM # | lb | N | Deflection (in) | Natural Frequency (Hz) |
|---|---|---|---|---|
| **FSH04028** | 1000 | 4448 | 0.0016 | 6100 |
| **FSH04029** | 3000 | 13344 | 0.0011 | 7400 |
| **FSH04030** | 10000 | 44480 | 0.0031 | 8100 |

## BENDIX 6-PIN

| PIN | COLOR | DESCRIPTION | TEDS DESCRIPTION |
|---|---|---|---|
| **A** | Red | + Excitation | + Excitation |
| **B** | Black | – Excitation | – Excitation |
| **C** | Green | + Signal | + Signal |
| **D** | White | – Signal | – Signal |
| **E** | Orange | + Sense | TEDS Data |
| **F** | Blue | – Sense | TEDS Ground |




Sensor Receptacle View

**Drawing Number: FI1408-A**

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