

FUTEK MODEL LTH400

Drawing Number: FI1004-B

DONUT / THRU HOLE LOAD CELL AVAILABLE WITH I.D.'S FROM 1/8 TO 5/8

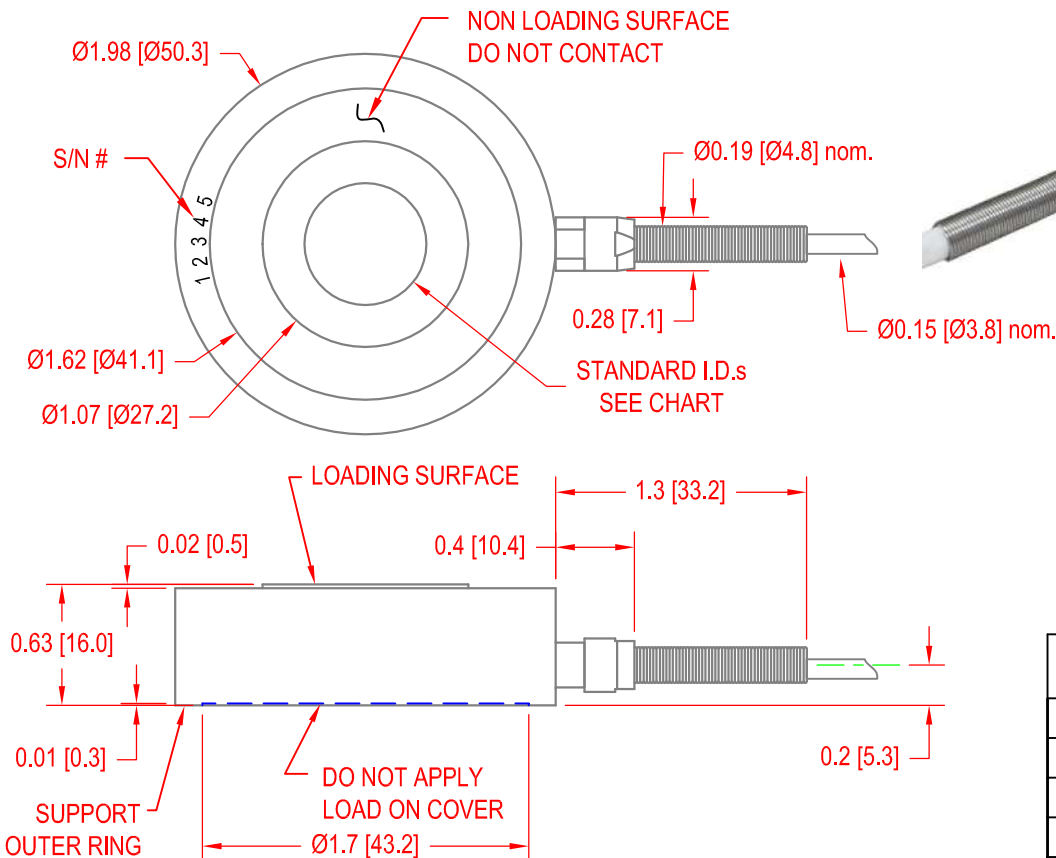
INCH [mm] R.O.= Rated Output

WIRING CODE (WC1)

| +Excitation | -Excitation | +Signal | -Signal |
|-------------|-------------|---------|---------|
| RED | BLACK | GREEN | WHITE |

| Shield |
|----------|
| FLOATING |

+ OUTPUT
(COMPRESSION)



SPECIFICATIONS:

| | |
|--|---|
| RATED OUTPUT | 2 mV/V nom. |
| CAPACITY lb | 250, 500, 1000, 2000, 3000, 5000, 7500, 10000* |
| N | 1112, 2224, 4448, 8896, 13344, 22240, 33360, 44480* |
| SAFE OVERLOAD | 150% of R.O. |
| ZERO BALANCE | ±1% of R.O. |
| EXCITATION (VDC OR VAC) | 18 MAX |
| BRIDGE RESISTANCE | 700 Ω nom. |
| NONLINEARITY | ±0.5 % of R.O. |
| HYSTERESIS | ±0.5% of R.O. |
| NONREPEATABILITY | ±0.5% of R.O. |
| TEMP. SHIFT ZERO | ±0.005% of R.O./°F [0.01% of R.O./°C] |
| TEMP. SHIFT SPAN | ±0.005% of LOAD/°F [0.01% of LOAD/°C] |
| COMPENSATED TEMP. | 60 to 160°F [15 to 72°C] |
| OPERATING TEMP. | -60 to 200°F [-50 to 93°C] |
| WEIGHT | 8 oz [227 g] |
| MATERIAL | 17-4PH S.S. |
| DEFLECTION | 0.002 [0.05] nom. |
| CABLE: #24 AWG, 4 Conductor, Spiral Shielded Teflon Cable 10 ft [3 m] Long | |
| ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE | |
| CALIBRATION (STD) | 5 pt. COMPRESSION: 100K Ω SHUNT CAL. VALUE |
| CALIBRATION TEST EXCITATION | 10 VDC |

| ID | Inner Diameter DIMENSION |
|------|-----------------------------|
| 1/8 | 0.136/0.134 [3.45/3.40] |
| 3/16 | 0.199/0.197 [5.06/5.01] |
| 1/4 | 0.261/0.259 [6.63/6.58] |
| 5/16 | 0.324/0.322 [8.23/8.18] |
| 3/8* | 0.386/0.384 [9.80/9.75] |
| 7/16 | 0.449/0.447 [11.40/11.35] |
| 1/2 | 0.511/0.509 [12.98/12.93] |
| 9/16 | 0.574/0.572 [14.58/14.53] |
| 5/8* | 0.636/0.634 [16.15/16.10] |

NOTE:

WHILE TORQUING BOLTS, HIGH TENSION FORCES WILL OCCUR DURING INSTALLATION, WHICH COULD RESULT IN OVERLOADING THE SENSOR. FUTEK RECOMMENDS CONNECTING SENSOR TO A SYSTEM IN ORDER TO MONITOR THE APPLIED FORCES. FUTEK IS NOT LIABLE OR RESPONSIBLE FOR THE MISHANDLING OF THE SENSOR DURING INSTALLATION.

* COMMONLY STOCKED CAPACITIES AND INNER DIAMETERS

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

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