

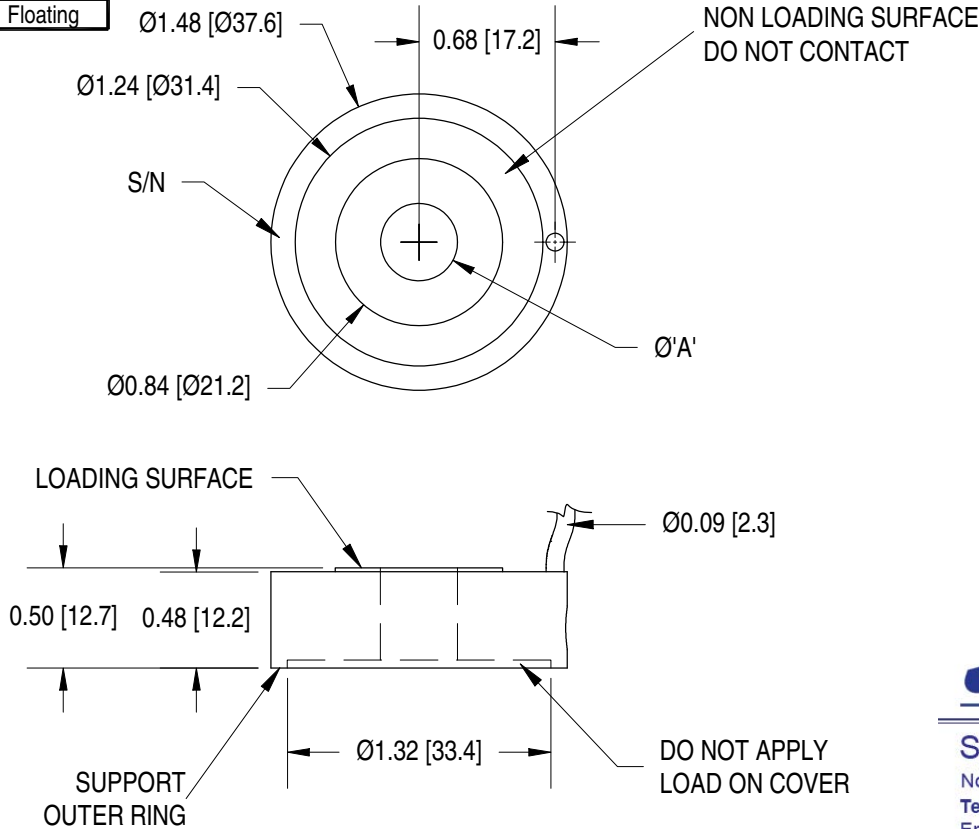
# FUTEK MODEL LTH350 (SPECIAL)

ITEM NUMBER: SEE CHART

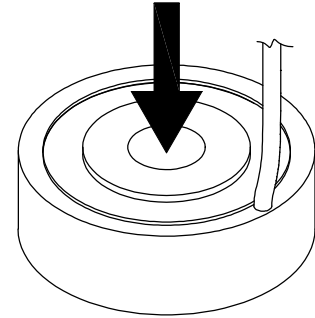
**DONUT LOAD CELL WITH TOP EXITING CABLE**  
(PREVIOUSLY L2761-Q10589)

INCH (mm) | R.O.= Rated Output

| WIRING CODE        |                      |                  |                  |
|--------------------|----------------------|------------------|------------------|
| +Excitation<br>RED | -Excitation<br>BLACK | +Signal<br>GREEN | -Signal<br>WHITE |
| Shield             |                      |                  |                  |
| Floating           |                      |                  |                  |



**+ OUTPUT**  
(COMPRESSION)



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## SPECIFICATIONS:

|  |                                       |
|--|---------------------------------------|
| <b>RATED OUTPUT</b>  | 2 mV/V nom.                           |
| <b>CAPACITY</b>  | See Chart                             |
| <b>SAFE OVERLOAD</b>   | 150% of R.O.                          |
| <b>ZERO BALANCE</b>  | ±1% of R.O.                           |
| <b>EXCITATION (VDC OR VAC)</b>   | 18 MAX                                |
| <b>BRIDGE RESISTANCE</b>   | 700 $\Omega$ nom.                     |
| <b>NONLINEARITY</b>  | ±1% of R.O.                           |
| <b>HYSTERESIS</b>  | ±1% of R.O.                           |
| <b>NONREPEATABILITY</b>  | ±1% of R.O.                           |
| <b>TEMP. SHIFT ZERO</b>  | ±0.005% of R.O./°F [0.01% of R.O./°C] |
| <b>TEMP. SHIFT SPAN</b>  | ±0.005% of LOAD/°F [0.01% of LOAD/°C] |
| <b>COMPENSATED TEMP.</b>   | 60 to 160°F [15 to 72°C]              |
| <b>OPERATING TEMP.</b>   | -60 to 200°F [-50 to 93°C]            |
| <b>WEIGHT</b>  | 3.5 oz [99 g]                         |
| <b>MATERIAL</b>  | 17-4PH S.S.                           |
| <b>DEFLECTION</b>  | 0.002 [0.05] nom.                     |
| <b>CABLE: #29 AWG, 4 Conductor, Spiral Shielded Silicone Cable (See Chart) ft Long</b> |                                       |

## 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.

| ITEM #:  | lb  | NEWTON | ØA           | CABLE LENGTH |
|----------|-----|--------|--------------|--------------|
| QSH00821 | 500 | 2200   | 0.385 [9.8]  | 2 [0.61 m]   |
| QSH01354 | 250 | 1100   | 0.635 [16.1] | 2 [0.61 m]   |
| QSH01377 | 500 | 2200   | 0.635 [16.1] | 5 [1.5 m]    |

CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

12-03-09

2-1-10

2-3-10

## OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)

- ALL DIMENSIONS ARE IN INCHES
- DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M
- REMOVE BURRS AND BREAK SHARP EDGES .005 - .015
- THREADS PER HANDBOOK H-28
- DIMENSIONS ARE SHOWN AFTER PLATING

ANGLE:  
±1/2°

CHAMFER:  
±5°

TOLERANCE:  
.X ±0.1  
.XX ±0.01  
.XXX ±0.005

3rd ANGLE PROJ.



This drawing is submitted solely for the information and exclusive use of the original addressee. It is not to be divulged in whole or in part, by any firm or individual without written permission from:

**CAGE: 1X8M6**

MODEL: **LTH350**

DRAWN BY: R. Walker

APPROVED BY: H. AU

**FUTEK**  
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DWG No.: **F01147-C**

CHECKED BY: -

DATE: **Sept. 13, 2009**