

Terms and Conditions of Use

This drawing, including all information depicted herein (collectively, “Drawing”), is FUTEK’s property and protected under applicable law, including copyright. FUTEK reserves all rights. The Drawing is provided solely for your information and exclusive use. **Except as expressly approved by FUTEK in writing, you may not reproduce or share this Drawing**, in whole or part, with any other firm or individual, or attempt to reverse engineer the Drawing or data contained therein. Any reproduction of this Drawing in whole or part must include this legend.

By accessing the Drawing, you agree that you have read, understand, and agree to abide by the stated Terms and Conditions of Use.

© 2023 FUTEK Advanced Sensor Technology, Inc.

FUTEK MODEL QLA254

CUSTOM DONUT LOAD CELL

STOCK NUMBER: QSH00718

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

WIRING CODE (WC1)			
+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE
Shield			
Floating			

+OUTPUT
(COMPRESSION)



Ø4.35 [Ø110.5] MAX

Ø4.05 [Ø102.9]

Ø3.55 [Ø90.2]

Ø3.20 [Ø81.3] MIN

Ø0.09 [Ø2.3] nom. CABLE

0.13 [3.2] nom. SPRING

0.19 [4.7] nom. STRAIN RELIEF

0.30 [7.6] MAX

0.03 [0.8]

LOADING SURFACE

0.13 [3.3] CABLE EXIT

Ø4.11 [Ø104.4] COVER**

SUPPORT OUTER RING

0.03 [0.8] COVER RECESS

**DO NOT APPLY LOAD ON COVER

SPECIFICATIONS:

RATED OUTPUT	2 mV/V nom.
CAPACITY	2000 lbs
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±2% of R.O.
EXCITATION	18 VDC MAX
BRIDGE RESISTANCE	350/700 Ω nom.
NONLINEARITY	±2% of R.O.
NONREPEATABILITY	±0.5% of R.O.
TEMP. SHIFT ZERO	±0.02% of R.O./°F
TEMP. SHIFT SPAN	±0.02% of LOAD/°F
COMPENSATED TEMP.	60 to 160°F
OPERATING TEMP.	0 to 200°F
WEIGHT	0.5 lbs
MATERIAL	STAINLESS STEEL
CABLE: #29 Awg 4 Conductor Spiral Shielded Teflon Cable, 10 ft Long	

MATERIAL:

—

HEAT TREATMENT - FINISH:

—

REVISIONS: (Refer to dwg # revision sheet)

A -

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

3rd ANGLE PROJ.



ANGLE:

±1/2°

CHAMFER:

±5°

TOLERANCE:

.X ±0.1

.XX ±0.01

.XXX ±0.005

FUTEK

This drawing, including all information depicted herein (collectively, "Drawing"), is FUTEK's property and protected under applicable law, including copyright. FUTEK reserves all rights. The Drawing is provided solely for your information and exclusive use. Except as expressly approved by FUTEK in writing, you may not reproduce or share this Drawing, in whole or part, with any other firm or individual, or attempt to reverse engineer the Drawing or data contained therein. Any reproduction of this Drawing in whole or part must include this legend.

CAGE: 1X8M6

MODEL: QLA254

DRAWN BY: H. AU

APPROVED BY: R. WALKER

DWG No.: FO1122

CHECKED BY: J. VARGAS

DATE: MAR. 03, 2006