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FUTEK MODEL QLA408

ITEM NUMBER: QSH01982

Custom Thru Hole Load Cell

DESIGNED TO MINIMIZE THE EFFECTS OF SHEAR (Fx and Fy) AND MOMENT (Mx and My) LOADS

INCH [mm] | R.O. = Rated Output

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

NON LOADING SURFACE
(TOP AND BOTTOM)

MINIMIZE EFFECTS OF
Mx /My LOADS 400in-lb

COMPRESSION
(+OUTPUT)

LOADING
AREA

ENGRAVED ITEM #, CAPACITY,
S/N, CAP, DATA MATRIX.

MINIMIZE
EFFECTS OF
Fx /Fy LOADS 100 lb

ENGRAVED
FUTEK LOGO

Ø0.098 PILOT HOLE THRU
[Ø2.5 PILOT HOLE THRU]
M3x0.5 - 6H ∇ 0.094
[M3x0.5 - 6H ∇ 2.4]

3.444 ± 0.002
[87.5 ± 0.1]

0.861
[21.9]

0.861
[21.9]

1.722 ± 0.002
[43.7 ± 0.1]

8X M4x0.7 - 6H ∇ THRU

1.491
[37.9]

1.424
[36.2]

1.491
[37.9]

1.424
[36.2]

(Ø0.088)
[Ø2.2]

2X Ø0.1585 ± 0.0010 THRU
[2X Ø4.03 ± 0.03 THRU]

Ø3.680
[Ø93.5]

0.200
[5.1]

0.200
[5.1]

0.015
[0.4]

0.500
[12.7]

0.0002

2X 0.02 X 45° Chamfer
[2X 0.5 X 45° Chamfer]

0.0005 A
0.0002

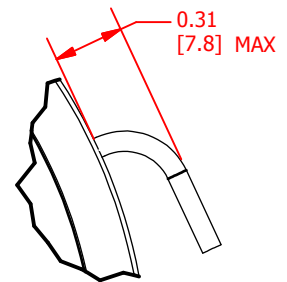
SUPPORT OUTER RING

Ø4.295
[109.1]

SECTION A-A

SPECIFICATIONS:

RATED OUTPUT	2 mV/V nom.
CAPACITY	1000 lb. [4440N]
SAFE OVERLOAD	150 % of R.O.
ZERO BALANCE	±5% of R.O.
EXCITATION (VDC OR VAC)	15 MAX
BRIDGE RESISTANCE	700 Ω nom.
NONLINEARITY	±1% of R.O.
HYSTERESIS	±1% of R.O.
NONREPEATABILITY	±0.5% of R.O.
TEMP. SHIFT ZERO	±0.01% of R.O./°F (±0.018 of R.O./°C)
TEMP. SHIFT SPAN	±0.02% of LOAD/°F (±0.036 of LOAD/°C)
COMPENSATED TEMP.	50 to 100 °F (10 to 38 °C)
OPERATING TEMP	-60 to 200 °F (-51 to 93 °C)
WEIGHT (approx)	0.75 lb [340.1 g]
MATERIAL	17-4 PH S.S.
DEFLECTION	0.003 [0.013] nom.
CABLE: #29 Awg 4 Conductor Spiral Shielded Silicone Cable, 10 ft [3.0 m] Long	
MAX Fx/Fy RESISTANCE	100 lb
MAX Mx/My RESISTANCE	400 in-lb



CABLE BEND RADIUS
DETAIL A

CUSTOMER APPROVAL- COMPANY:

OUTLINE DRAWING

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CUSTOMER APPROVAL- NAME / DATE:

STANDARD NOTES: (Unless Otherwise Specified)

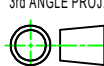
REVISIONS: (Refer to dwg # revision sheet)

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"



MODEL: **QLA408**

DWG No.: **FO1460**

DRAWN BY: M. Lisiak

CREATED DATE: 4/6/2018

APPROVED BY: R. Walker

APPROVED DATE: 4/10/2018

CHECKED BY:

CAGE: 1X8M6 SHEET: 1 OF 1