

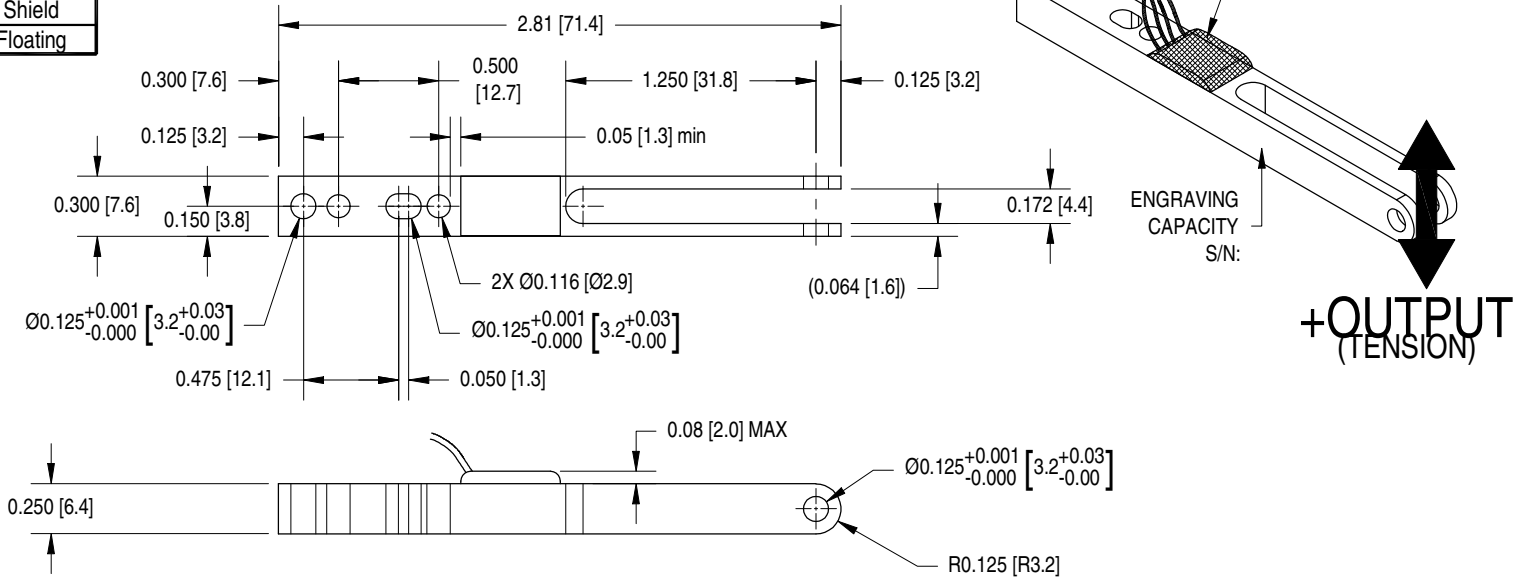
FUTEK MODEL QLA328

CUSTOM BENDING BEAM LOADCELL

ITEM NUMBER: QSH01340

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

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



SPECIFICATIONS:

RATED OUTPUT	1 mV/V nom.
CAPACITY	▲ 18 lb
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	▲ +6 / -0% of R.O.
EXCITATION (VDC OR VAC)	15 MAX
BRIDGE RESISTANCE	1000 Ω nom
NONLINEARITY	$\pm 1\%$ of R.O.
HYSTERESIS	$\pm 0.5\%$ of R.O.
NONREPEATABILITY	$\pm 0.1\%$ of R.O.
TEMP. SHIFT ZERO	$\pm 0.02\%$ of R.O./°F (0.036% of R.O./°C)
TEMP. SHIFT SPAN	$\pm 0.02\%$ of LOAD/°F (0.036% of LOAD/°C)
COMPENSATED TEMP.	60 to 160°F (15 to 72°C)
OPERATING TEMP.	32 to 200°F (0 to 93°C)
WEIGHT	approx 20 g
MATERIAL	17-4ph S.S.
CABLE: 29 AWG, 4 Conductor Spiral Shielded Silicone Cable, 2 ft Long	

CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

▲ 10-28-09

OUTLINE DRAWING

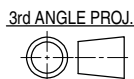
STANDARD NOTES: (Unless Otherwise Specified)

- 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:
 $\pm 1/2^\circ$

CHAMFER:
 $\pm 5^\circ$

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



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FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

10 THOMAS
IRVINE, CA 92618 USA
Phone: (949) 465-0900
Fax: (949) 465-0905

CAGE: 1X8M6

MODEL: QLA328

DRAWN BY: R. WALKER

APPROVED BY: -

DWG No.: F01258-A

CHECKED BY: A. SATA

DATE: Oct 22, 2009

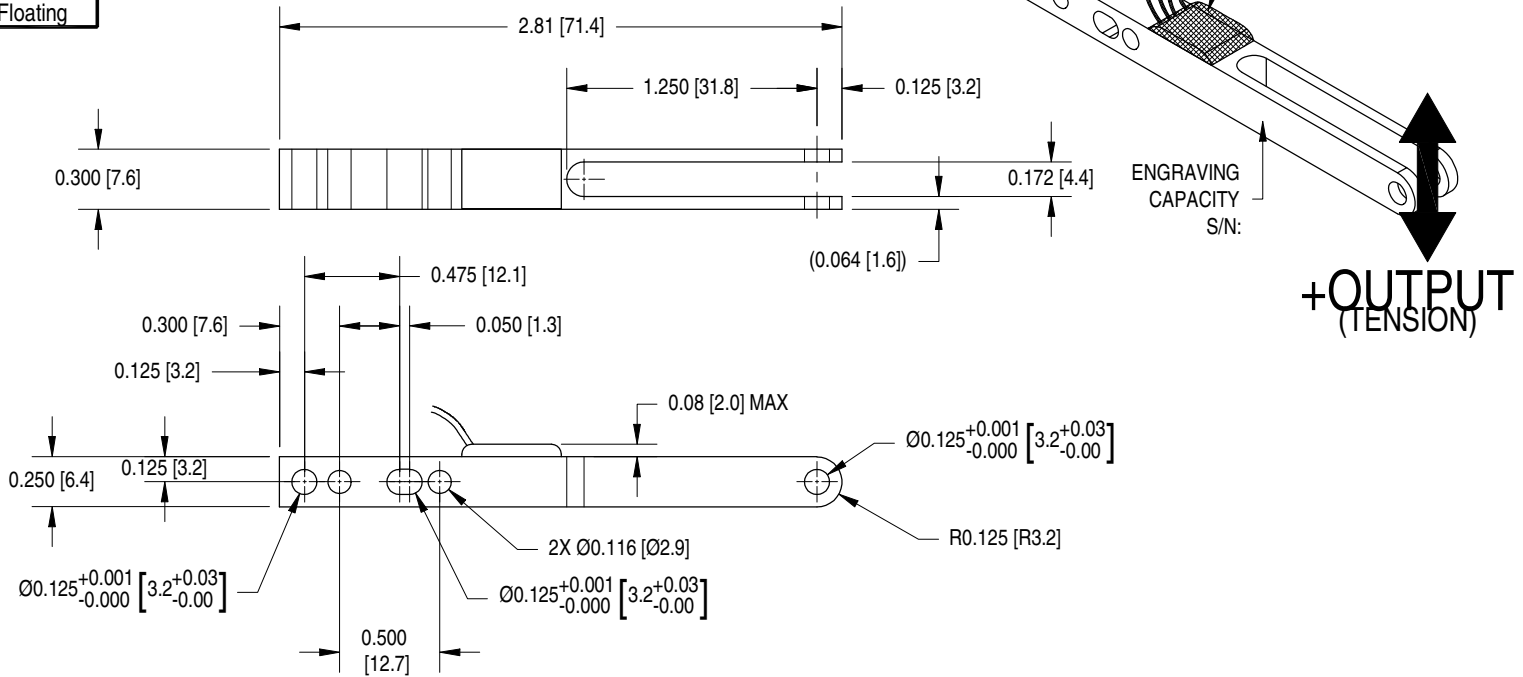
FUTEK MODEL QLA328

CUSTOM BENDING BEAM LOADCELL

ITEM NUMBER: QSH01341

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

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



SPECIFICATIONS:

RATED OUTPUT	1 mV/V nom.
CAPACITY	26 lb
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	△ +6 / -0% of R.O.
EXCITATION (VDC OR VAC)	15 MAX
BRIDGE RESISTANCE	1000 Ω nom
NONLINEARITY	±1% of R.O.
HYSTERESIS	±0.5% of R.O.
NONREPEATABILITY	±0.1% of R.O.
TEMP. SHIFT ZERO	±0.02% of R.O./°F (0.036% of R.O./°C)
TEMP. SHIFT SPAN	±0.02% of LOAD/°F (0.036% of LOAD/°C)
COMPENSATED TEMP.	60 to 160°F (15 to 72°C)
OPERATING TEMP.	32 to 200°F (0 to 93°C)
WEIGHT	approx 20 g
MATERIAL	17-4ph S.S.
CABLE: 29 AWG, 4 Conductor Spiral Shielded Silicone Cable, 2 ft Long	

CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

△ 10-28-09

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.



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10 THOMAS
IRVINE, CA 92618 USA
Phone: (949) 465-0900
Fax: (949) 465-0905

CAGE: 1X8M6

MODEL: QLA328

DRAWN BY: R. WALKER

APPROVED BY: -

DWG No.: F01257-A

CHECKED BY: A. SATA

DATE: Oct 22, 2009

ITEM NUMBER: QSH01447

0.576 [14.63]

1.940 [49.28]

0.500 [12.70]

0.10 [2.5]

2.873 [72.96]

0.281 [7.14]

0.110 [2.78]

CONFORMAL COATING

0.200 [5.08]

0.375 [9.53]

0.188 [4.76]

2.685 [68.20]

0.500 [12.70]

0.08 [2.0] MAX

#4-40 UNC
▽ THRU

2X Ø0.125 [Ø3.18] THRU

4X Ø0.236 [Ø5.99]
▽0.125

Ø0.125 ^{+0.001}/_{-0.000} [3.18 -0.00]

Ø0.265 [6.73] ▽ 0.086 [2.18]

RATED OUTPUT	1 mV/V nom.
CAPACITY	18 lb [80 N]
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±3% of R.O.
EXCITATION (VDC OR VAC)	15 MAX
BRIDGE RESISTANCE	1000 Ω nom
NONLINEARITY	±1% of R.O.
HYSTERESIS	±0.5% of R.O.
NONREPEATABILITY	±0.1% of R.O.
TEMP. SHIFT ZERO	±0.02% of R.O./°F (0.036% of R.O./°C)
TEMP. SHIFT SPAN	±0.02% of LOAD/°F (0.036% of LOAD/°C)
COMPENSATED TEMP.	60 to 160°F (15 to 72°C)
OPERATING TEMP.	32 to 200°F (0 to 93°C)
WEIGHT	approx 0.13 lbs (57 g)
MATERIAL	17-4 PH S.S.
CABLE: 19 AWG, 4 Conductor Spiral Shielded Silicone Cable, 2 ft Long	

CUSTOMER APPROVAL-COMPANY		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		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: QLA328 DWG No.: F01277-A DRAWN BY: A. Sata CHECKED BY: - APPROVED BY: R. Walker DATE: Oct. 22, 2010 FUTEK ADVANCED SENSOR TECHNOLOGY, INC. 10 THOMAS IRVINE, CA 92618 USA Phone: (949) 465-0900 Fax: (949) 465-0905	
CUSTOMER APPROVAL-NAME /DATE					
REVISIONS: (Refer to dwg # revision sheet) A 10-28-10					

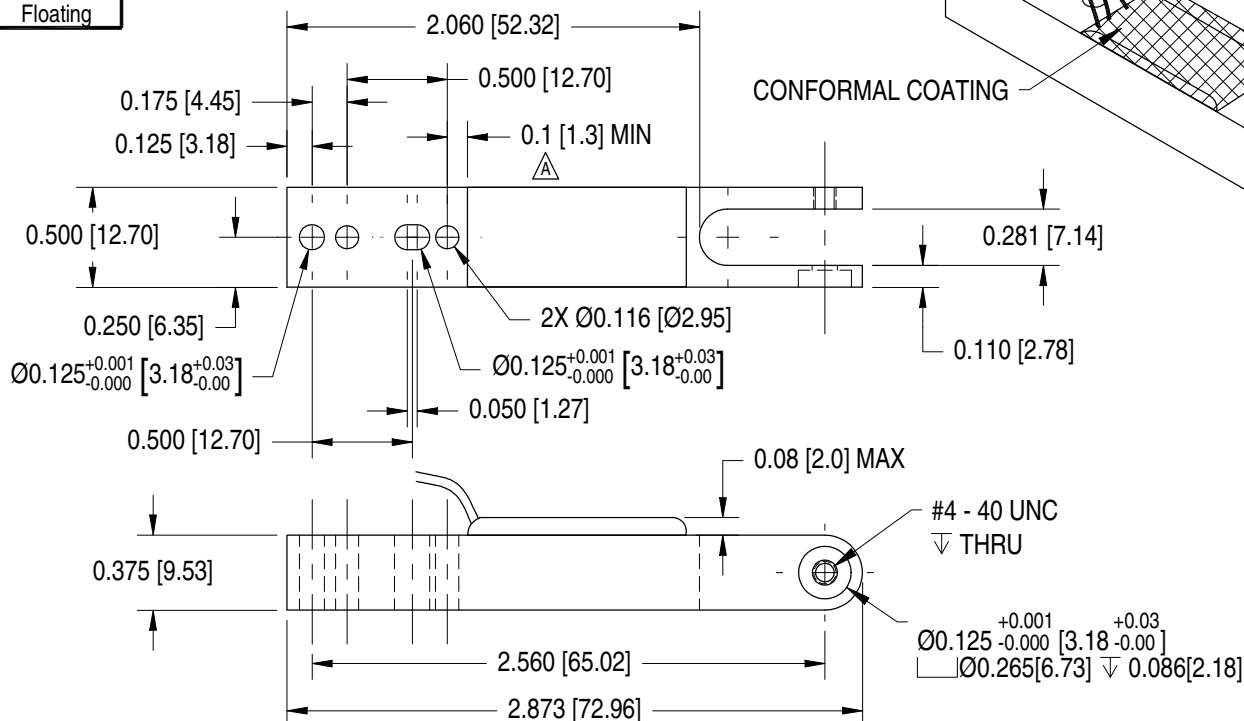
FUTEK MODEL QLA328 CUSTOM BENDING BEAM LOAD CELL, TOP MOUNT

ITEM NUMBER: QSH01448

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

WIRING CODE

+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE
Shield			
Floating			



SPECIFICATIONS:

RATED OUTPUT	1 mV/V nom.
CAPACITY	18 lb [80 N]
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±3% of R.O.
EXCITATION (VDC OR VAC)	15 MAX
BRIDGE RESISTANCE	1000 Ω nom
NONLINEARITY	±1% of R.O.
HYSTERESIS	±0.5% of R.O.
NONREPEATABILITY	±0.1% of R.O.
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TEMP. SHIFT SPAN	±0.02% of LOAD/°F (0.036% of LOAD/°C)
COMPENSATED TEMP.	60 to 160°F (15 to 72°C)
OPERATING TEMP.	32 to 200°F (0 to 93°C)
WEIGHT	approx 0.13 lbs (57 g)
MATERIAL	17-4 PH S.S.
CABLE:	29 AWG, 4 Conductor Spiral Shielded Silicone Cable, 2 ft Long

CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

11-01-10

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.



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IRVINE, CA 92618 USA
Phone: (949) 465-0900
Fax: (949) 465-0905

CAGE: 1X8M6

MODEL: **QLA328**

DRAWN BY: A. Sata

APPROVED BY: R. Walker

DWG No.: **F01278**

CHECKED BY: -

DATE: **Oct. 22, 2010**