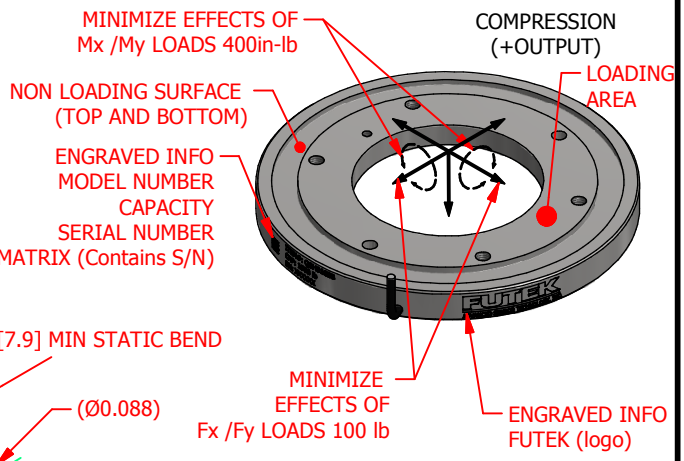
# FUTEK MODEL QLA393

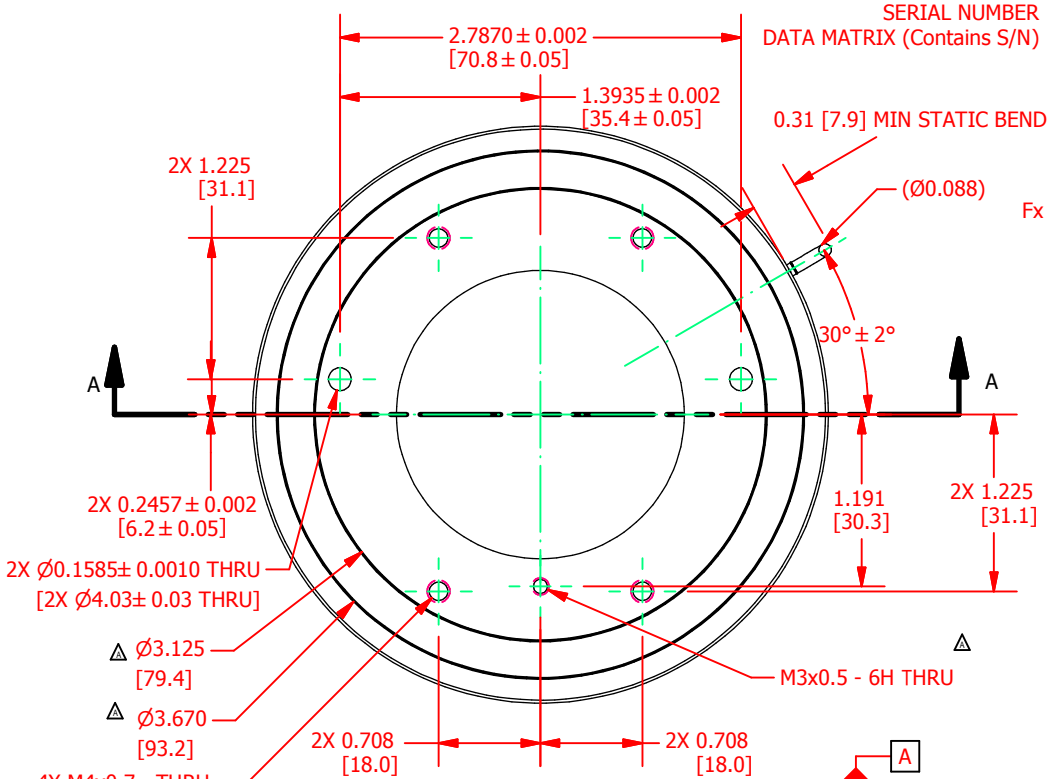
## ⚠ Custom Thru Hole Load Cell

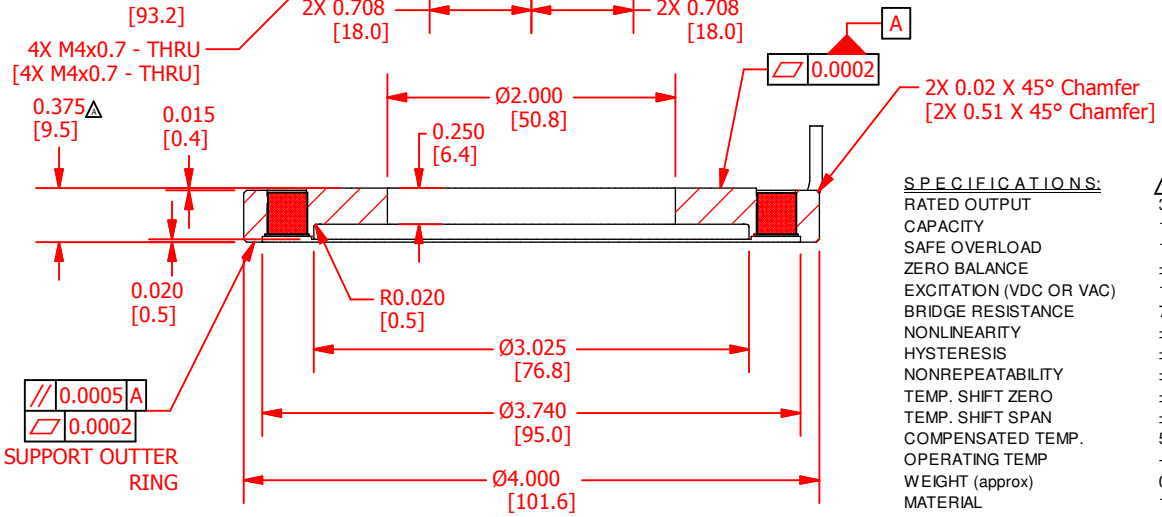
ITEM NUMBER: QSH01835

⚠ 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 | | | |




SECTION A-A

| SPECIFICATIONS: | ⚠B |
|---|---|
| RATED OUTPUT | 3 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 | |
| ⚠A MAX Fx/Fy RESISTANCE | 100 lb |
| MAX Mx/My RESISTANCE | 400 in-lb |

CUSTOMER APPROVAL- COMPANY:

CUSTOMER APPROVAL- NAME / DATE:

REVISIONS: (Refer to dwg # revision sheet)

| | |
|---|---|
| A | 12/18/2015 |
| B | 6/22/2016 |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# 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.



FUTEK ADVANCED SENSOR TECHNOLOGY, INC.

| | |
|---|---|
| MODEL: QLA393 | DWG No.: FO1412-B |
| DRAWN BY: E. Pano | CREATED DATE: 12/9/2015 |
| APPROVED BY: R. Walker | APPROVED DATE: 12/14/2015 |
| CHECKED BY: | CAGE: 1X8M6 SHEET: 1 OF 1 |

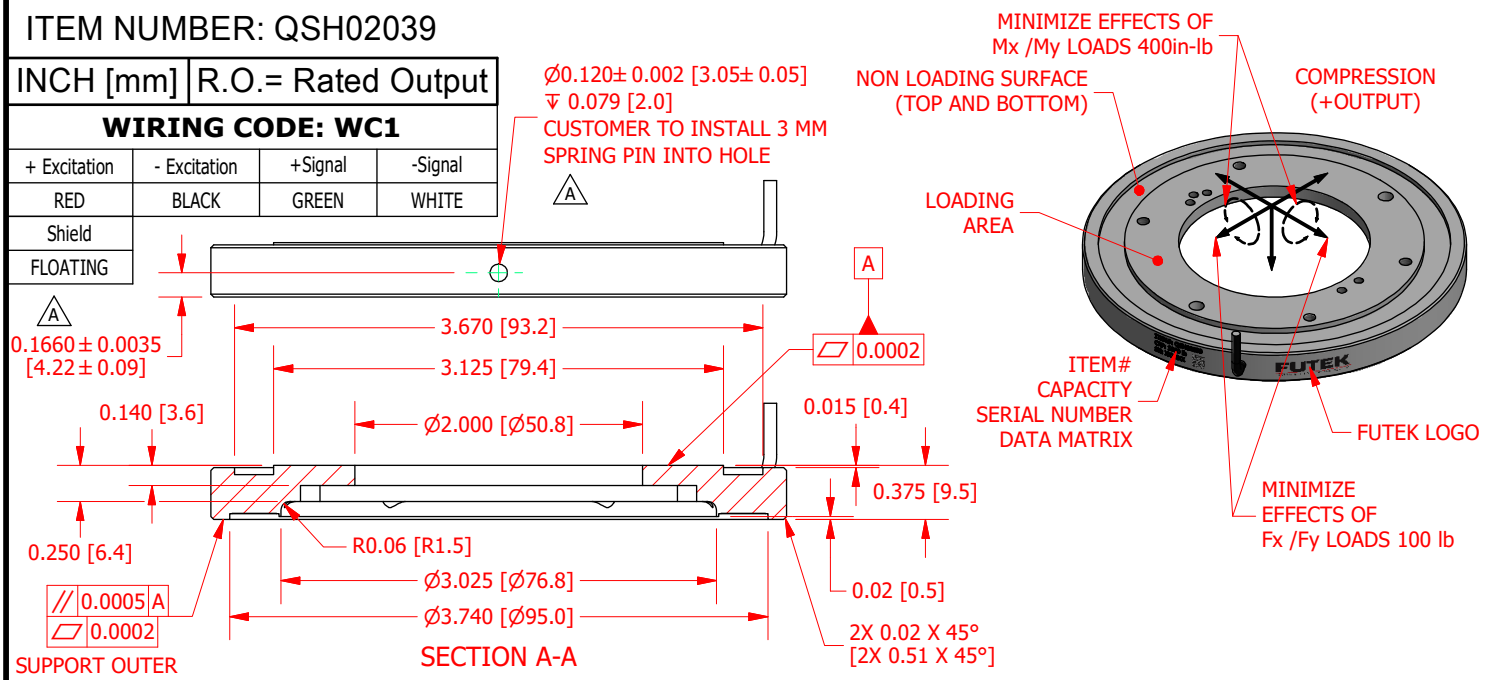
# FUTEK MODEL QLA393 *Custom Thru Hole Load Cell*

ITEM NUMBER: QSH02039

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

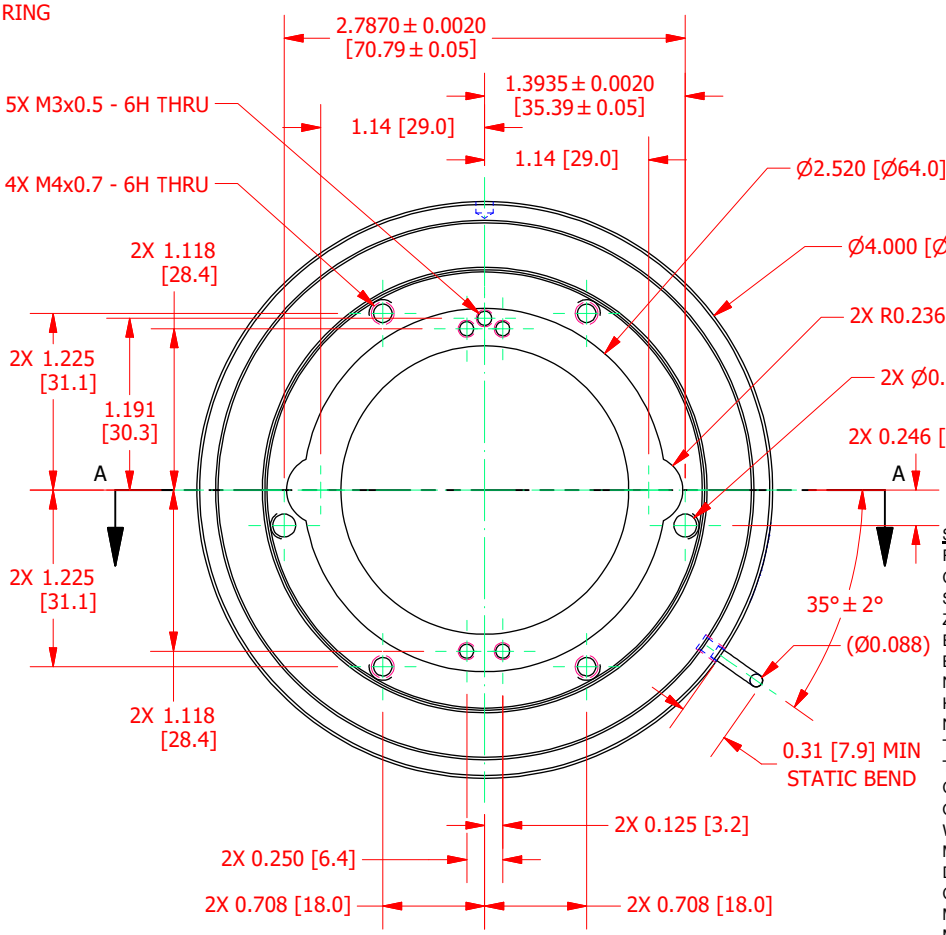
**WIRING CODE: WC1**

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










SPECIFICATIONS:

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| MAX Fx/Fy RESISTANCE | 100 lb |
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CUSTOMER APPROVAL- COMPANY:

CUSTOMER APPROVAL- NAME / DATE:

REVISIONS: (Refer to dwg # revision sheet)

| | |
|---|---|
| A | 8/20/2019 |


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# OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)

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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

| | |
|---|---|
| MODEL: QLA393 | DWG No.: FO1485-A |
| DRAWN BY: S. MICHEL | CREATED DATE: 9/12/2018 |
| APPROVED BY: R. WALKER | APPROVED DATE: 9/12/2018 |
| CHECKED BY: | CAGE: 1X8M6 SHEET: 1 OF 1 |