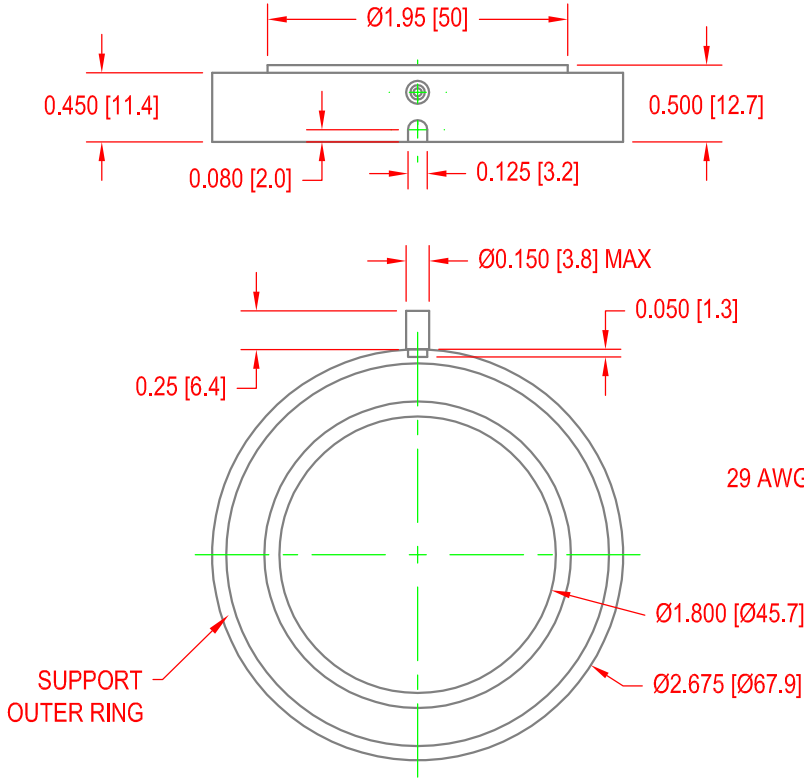


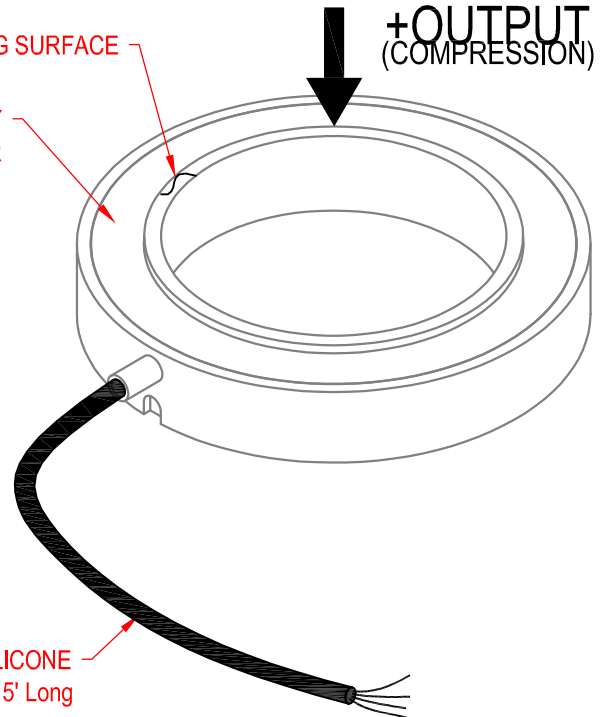
# FUTEK MODEL QLA341 CUSTOM DONUT LOAD CELL

ITEM NUMBER: QSH01453

| INCH [mm]   |             | R.O.= Rated Output |         |
|-------------|-------------|--------------------|---------|
| WIRING CODE |             |                    |         |
| +Excitation | -Excitation | +Signal            | -Signal |
| RED         | BLACK       | GREEN              | WHITE   |
| Shield      |             |                    |         |
| FLOATING    |             |                    |         |



LOADING SURFACE  
DO NOT APPLY  
LOAD ON COVER



## SPECIFICATIONS:

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| RATED OUTPUT      | 1.25 mV/V nom                                                           |
| CAPACITY          | 1000 lb [4448 N]                                                        |
| SAFE OVERLOAD     | 150% of R.O.                                                            |
| ZERO BALANCE      | ±3% of R.O.                                                             |
| EXCITATION        | 18 VDC MAX                                                              |
| NONLINEARITY      | ±0.5% of R.O.                                                           |
| HYSTERESIS        | ±0.5% 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  | ±0.01% of LOAD/°F [0.018% of LOAD/°C]                                   |
| COMPENSATED TEMP. | 60 to 160°F [15 to 72°C]                                                |
| OPERATING TEMP.   | -60 to 185°F [-50 to 85°C]                                              |
| WEIGHT            | 4.8 oz [136 g]                                                          |
| MATERIAL          | 17-4 PH S.S.                                                            |
| CABLE:            | #29 AWG, 4 Conductor, Spiral Shielded Silicone Cable, 5 ft [1.5 m] Long |

**DSPM Industria**  
sensori & trasduttori

Via Paolo Uccello 4 - 20148 Milano  
Tel +39 02 48 009 757 Fax +39 02 48 002 070  
info@dspmindustria.it www.dspmindustria.it

CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

## OUTLINE DRAWING

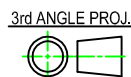
STANDARD NOTES: (Unless Otherwise Specified)

- 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



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:

**FUTEK**  
ADVANCED SENSOR TECHNOLOGY, INC.

**CAGE: 1X8M6**

MODEL: **QLA341**

DWG No.: **F01285**

DRAWN BY: A. Sata

CHECKED BY: -

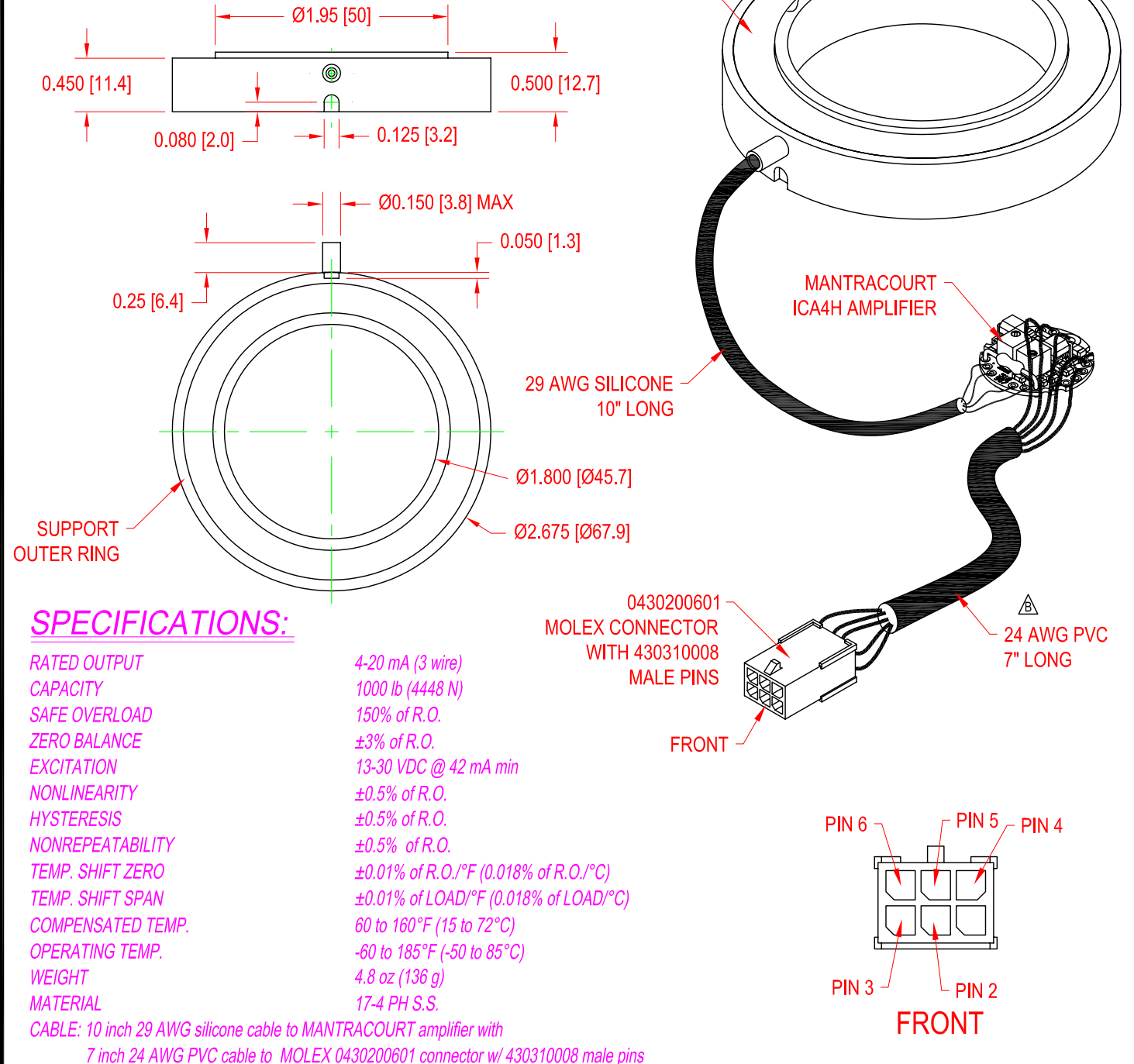
APPROVED BY: R. Walker

DATE: **Feb 15, 2011**

# FUTEK MODEL QLA341 CUSTOM DONUT LOAD CELL W/ AMPLIFIER 4-20mA

ITEM NUMBER: QSH01456

|                 |                                                                                   |                    |               |
|-----------------|-----------------------------------------------------------------------------------|--------------------|---------------|
| INCH [mm]       |                                                                                   | R.O.= Rated Output |               |
| WIRING CODE     |                                                                                   |                    |               |
| Supply +        | Supply -                                                                          | Output + (mA)      | Output - (mA) |
| PIN 3 (RED)     | PIN 2 (BLACK)                                                                     | PIN 5 (WHITE)      | PIN 6 (GREEN) |
| Ground Floating |  |                    |               |
| PIN 4 (SHIELD)  |                                                                                   |                    |               |



## SPECIFICATIONS:

|                   |                                       |
|-------------------|---------------------------------------|
| RATED OUTPUT      | 4-20 mA (3 wire)                      |
| CAPACITY          | 1000 lb (4448 N)                      |
| SAFE OVERLOAD     | 150% of R.O.                          |
| ZERO BALANCE      | ±3% of R.O.                           |
| EXCITATION        | 13-30 VDC @ 42 mA min                 |
| NONLINEARITY      | ±0.5% of R.O.                         |
| HYSTERESIS        | ±0.5% 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  | ±0.01% of LOAD/°F (0.018% of LOAD/°C) |
| COMPENSATED TEMP. | 60 to 160°F (15 to 72°C)              |
| OPERATING TEMP.   | -60 to 185°F (-50 to 85°C)            |
| WEIGHT            | 4.8 oz (136 g)                        |
| MATERIAL          | 17-4 PH S.S.                          |

CABLE: 10 inch 29 AWG silicone cable to MANTRACOURT amplifier with  
7 inch 24 AWG PVC cable to MOLEX 0430200601 connector w/ 430310008 male pins

## OUTLINE DRAWING

CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

12-14-10

01-26-11

**dspm** *Industria*  
sensori & trasduttori

Via Paolo Uccello, 4 - 20148 Milano  
Tel +39 02 48 009 757 Fax +39 02 48 002 070  
info@dspmindustria.it www.dspmindustria.it

STANDARD NOTES: (Unless Otherwise Specified)

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- 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

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**FUTEK**  
ADVANCED SENSOR TECHNOLOGY, INC.

**CAGE: 1X8M6**

MODEL: **QLA341**

DWG No.: **F01282-B**

DRAWN BY: A. Sata

CHECKED BY: -

APPROVED BY: R. Walker

DATE: **Dec 2, 2010**