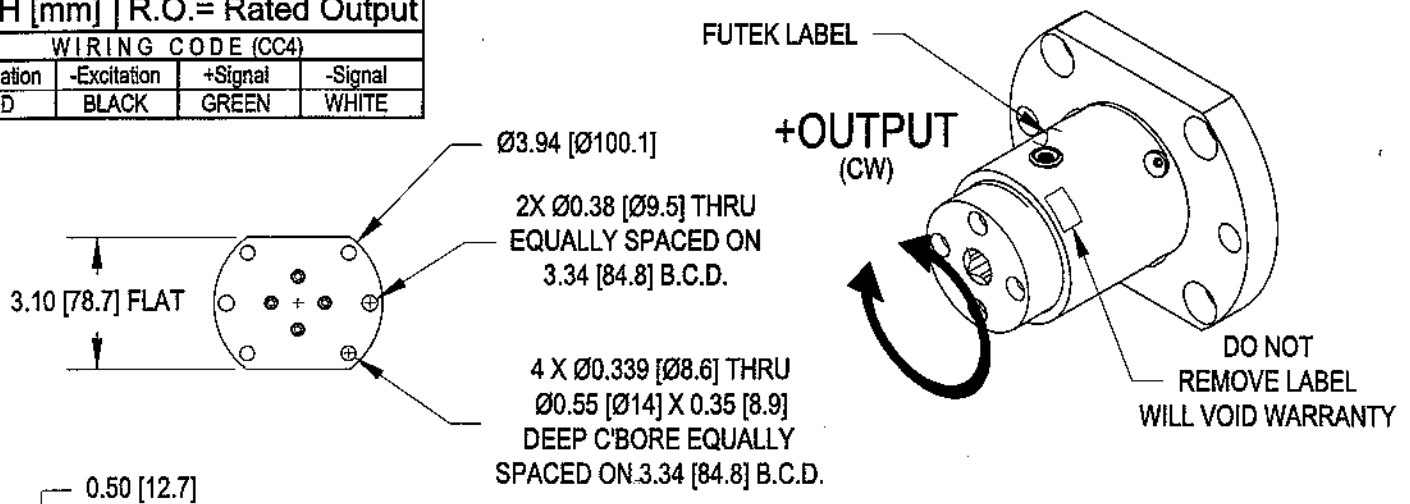
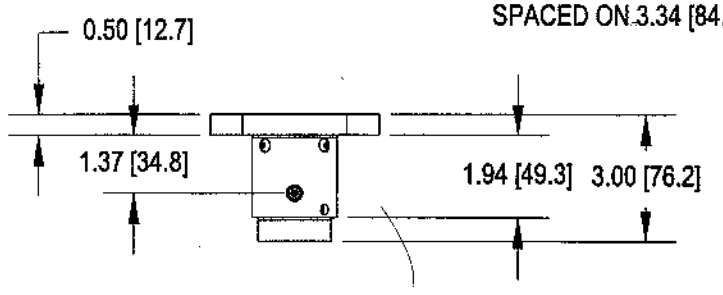
# FUTEK MODEL T5104

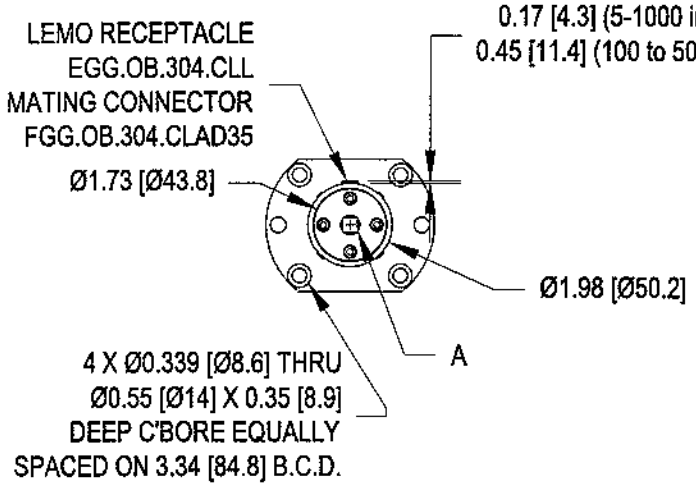
# *FLANGE TO SQUARE DRIVE REACTION TORQUE SENSOR*

| Drawing Number: F3255 | |
|---|---|
| INCH [mm] | R.O.= Rated Output |

| WIRING CODE (CC4) | | | |
|---|---|---|---|
| +Excitation | -Excitation | +Signal | -Signal |
| RED | BLACK | GREEN | WHITE |




| CAPACITY in-oz | CAPACITY Nm | A | TORSIONAL STIFFNESS in-oz/rad |
|---|---|---|---|
| 5* | 0.04 | 1/4" SQ DRIVE | 325 |
| 10* | 0.08 | | 700 |
| 20* | 0.15 | | 1600 |
| 50* | 0.37 | | 3500 |
| 100* | 0.75 | | 7300 |
| 160* | 1.2 | | 11000 |
| 400* | 3.0 | | 30000 |
| 1000 | 7.5 | | 71000 |

* OVERLOAD PROTECTION ON 5 to 400 in-oz [0.04 to 3 Nm]

| CAPACITY in-lb | CAPACITY Nm | A | TORSIONAL STIFFNESS in-lb/rad |
|---|---|---|---|
| 100 | 12 | 3/8" SQ DRIVE | 77000 |
| 200 | 24 | | 95000 |
| 500 | 60 | | 199000 |

FOR HIGHER CAPACITIES REFER TO MODELS T5400/T5410

## *SPECIFICATIONS:*

| | |
|---|---|
| *RATED OUTPUT* | *1.5 mV/V nom. (5 in-oz) 2 mV/V nom. (10 in-oz to 500 in-lb)* |
| *SAFE OVERLOAD* | *150% of R.O.* |
| *ZERO BALANCE* | *±1% of R.O.* |
| *EXCITATION (VDC OR VAC)* | *18 VDC MAX* |
| *BRIDGE RESISTANCE* | *350 Ω nom. (5 to 1000 in-oz) 700 Ω nom. (100 to 500 in-lb)* |
| *NONLINEARITY* | *±0.2% of R.O.* |
| *HYSTERESIS* | *±0.2% of R.O.* |
| *NONREPEATABILITY* | *±0.05% of R.O.* |
| *TEMP. SHIFT ZERO* | *±0.002% of R.O./°F [0.0036% of R.O./°C]* |
| *TEMP. SHIFT SPAN* | *±0.002% of LOAD/°F [0.0036% of LOAD/°C]* |
| *COMPENSATED TEMP.* | *60 to 160°F [15 to 72°C]* |
| *OPERATING TEMP.* | *-60 to 200°F [-50 to 93°C]* |
| *WEIGHT* | *14 oz [397 g]* |
| *MATERIAL* | *Aluminum* |

*CONNECTOR: 4 Pin Lemo Receptacle EGG.OB.304.CLL*

*ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE*

| | |
|---|---|
| *CALIBRATION (STD)* | *5 pt. CW and CCW; 60K Ω (5 to 1000 in-oz) 100K Ω (100 to 500 in-lb) SHUNT CAL. VALUE* |
| *CALIBRATION TEST EXCITATION* | *10 VDC* |

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

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