

FUTEK MODEL QTA163

CUSTOM MICRO ROTARY TORQUE SENSOR

ITEM NUMBER: QSH02148



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

WIRING CODE

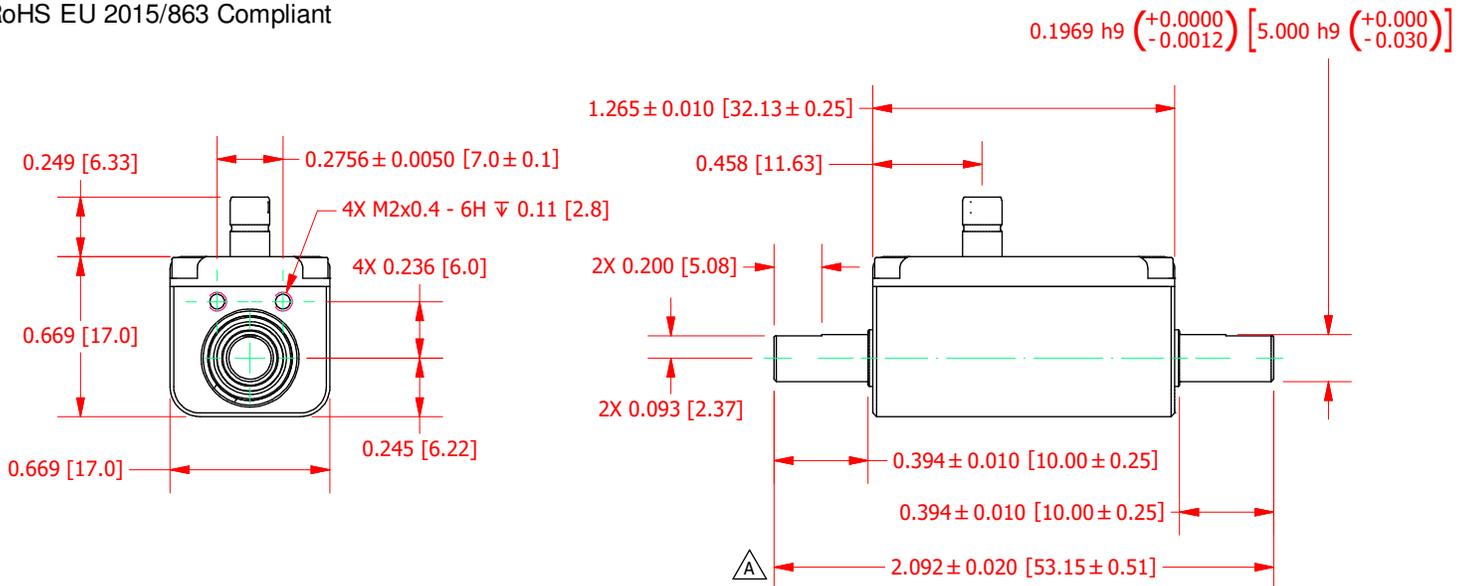
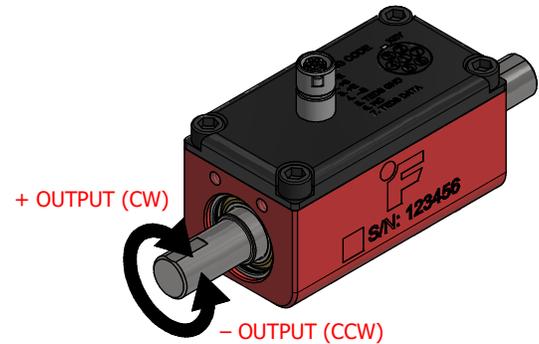
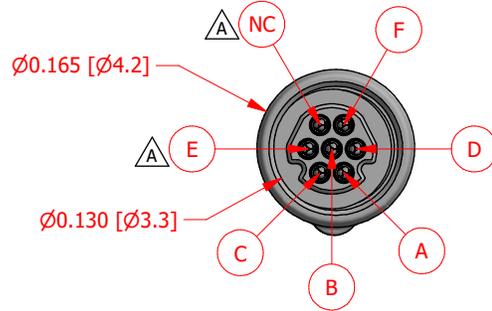
+ Excitation	- Excitation	+Signal	-Signal	+TEDS	TEDS GND
RED PIN A	BLACK PIN B	GREEN PIN C	WHITE PIN D	VIOLET/ORANGE PIN E	BLUE PIN F

SPECIFICATIONS:

RATED OUTPUT	2 mV/V nom
CAPACITY	1 N-m
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±3% of R.O.
EXCITATION	10 VDC max
BRIDGE RESISTANCE	1000 Ω nom.
NONLINEARITY	±0.1% of R.O.
HYSTERESIS	±0.2% of R.O. Δ
NONREPEATABILITY	±0.05% of R.O.
TEMP. SHIFT ZERO	±0.01% of R.O./°F (0.018% of R.O./°C)
TEMP. SHIFT SPAN	±0.04% of Load/°F (0.072% of Load/°C)
COMPENSATED TEMP.	41 to 122°F (5 to 50°C)
OPERATING TEMP	14 to 194°F (-10 to 90°C)
MATERIAL	SHAFT - STAINLESS STEEL HOUSING - ALUMINUM 6061-T6
MAX SPEED Δ	150 RPM

CONNECTOR: FUTEK 7-PIN RECEPTACLE

RoHS EU 2015/863 Compliant



CUSTOMER APPROVAL- COMPANY:

CUSTOMER APPROVAL- NAME / DATE:

REVISIONS: (Refer to dwg # revision sheet)

REV	DATE
A	8/21/20

OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)
 ALL DIMENSIONS ARE IN INCHES
 DRAWING INTERPRETATION DIMS. PER ASME-Y14.5
 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.

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:



MODEL: **QTA163**
 DRAWN BY: N. YADLOWSKY
 APPROVED BY: J. PARK
 CHECKED BY:

DWG No.: **FO1537-A**
 CREATED DATE: 5/15/2020
 APPROVED DATE: 5/29/2020
 CAGE: 1X8M6 SHEET: 1 OF 1