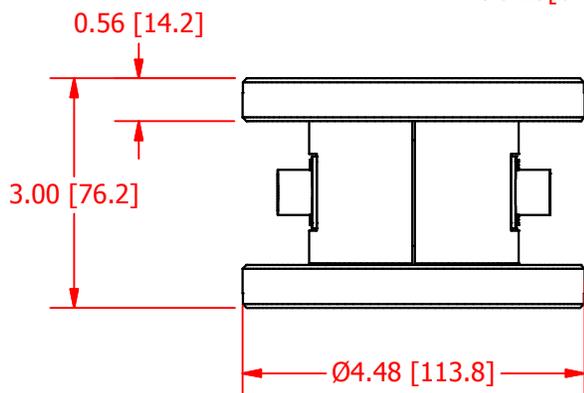
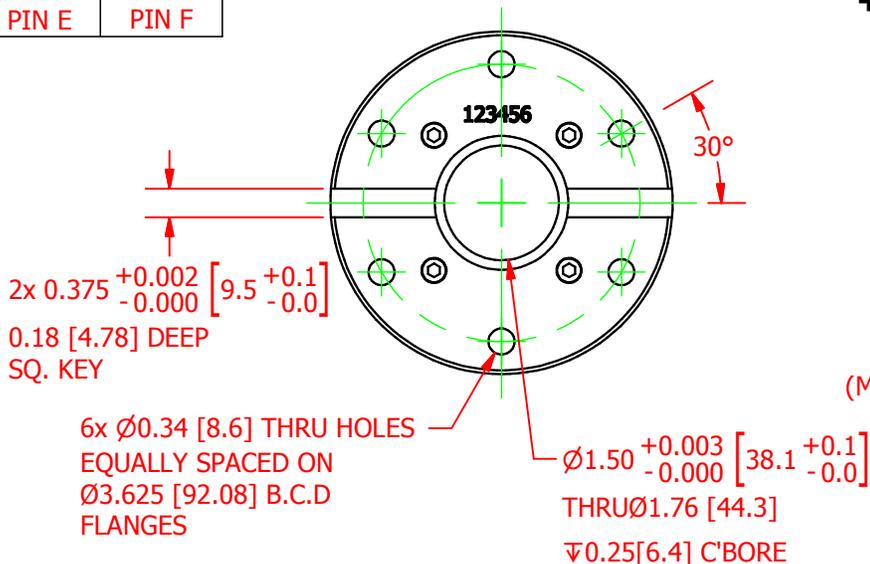
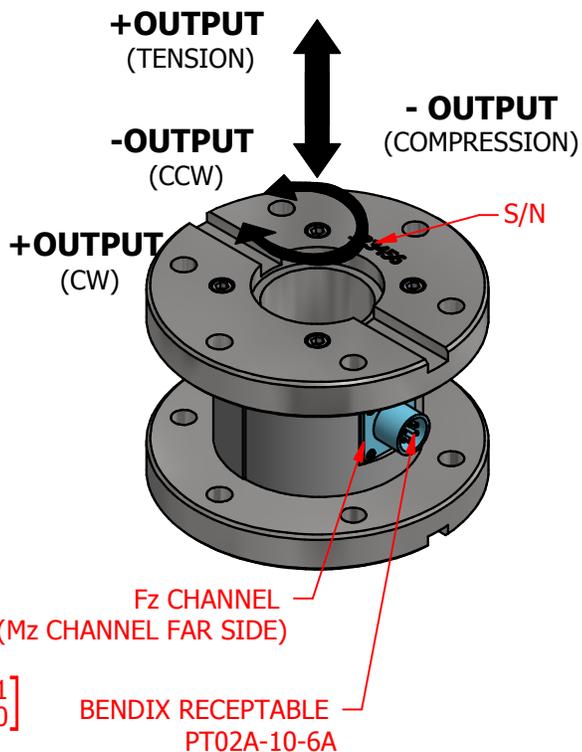


# FUTEK MODEL QMA133

## Reaction Torque and Thrust Flange Sensor

ITEM NUMBER: QSH01622

INCH [mm]		R.O.= Rated Output	
<b>WIRING CODE</b>			
+Excitation	-Excitation	+Signal	-Signal
RED PIN A	BLACK PIN B	GREEN PIN C	WHITE PIN D
+ Sense	- Sense		
ORANGE PIN E	BLUE PIN F		



### SPECIFICATIONS:

RATED OUTPUT	1 mV/V nom (Fz); 1 mV/V nom (Mz)
CAPACITY	3000 lb (Fz); 1000 in-lb (Mz)
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±2% of R.O. (Fz); ±2% of R.O. (Mz)
EXCITATION (VDC OR VAC)	18 MAX
BRIDGE RESISTANCE	372 Ω nom (Fz); 790 Ω nom (Mz)
NONLINEARITY	± 0.5% of R.O (Fz); ± 0.25% of R.O (Mz)
TEMP. SHIFT ZERO	± 0.005% of R.O./°F (± 0.009 of R.O./°C)
TEMP. SHIFT SPAN	± 0.005% of LOAD/°F (± 0.009 of LOAD/°C)
COMPENSATED TEMP.	60 to 160 °F (16 to 71 °C)
OPERATING TEMP	-60 to 200 °F (-51 to 93 °C)
WEIGHT (approx)	2 lb
MATERIAL	Aluminum Flexure, Red Anodized Aluminum (Cover)
CABLE:	2x 6 PIN BENDIX CONNECTOR PTO2A-10-6P

CUSTOMER APPROVAL- COMPANY:

## OUTLINE DRAWING

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

CUSTOMER APPROVAL- NAME / DATE:

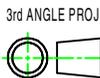
STANDARD NOTES: (Unless Otherwise Specified)

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"



MODEL: **QMA133**

DWG No.: **FO1326**

DRAWN BY: E. Pano

CREATED DATE: 8/30/2012

APPROVED BY: R. Walker

APPROVED DATE: 8/30/2012

CHECKED BY:

CAGE: 1X8M6 SHEET: 1 OF 1