

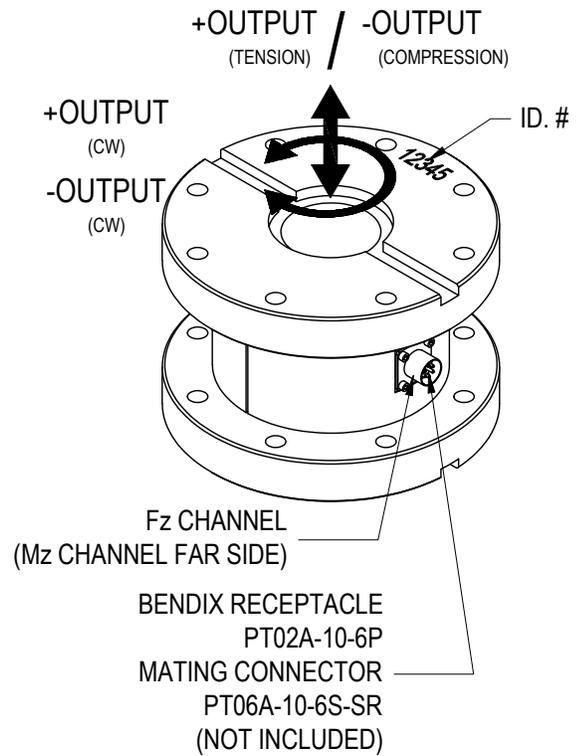
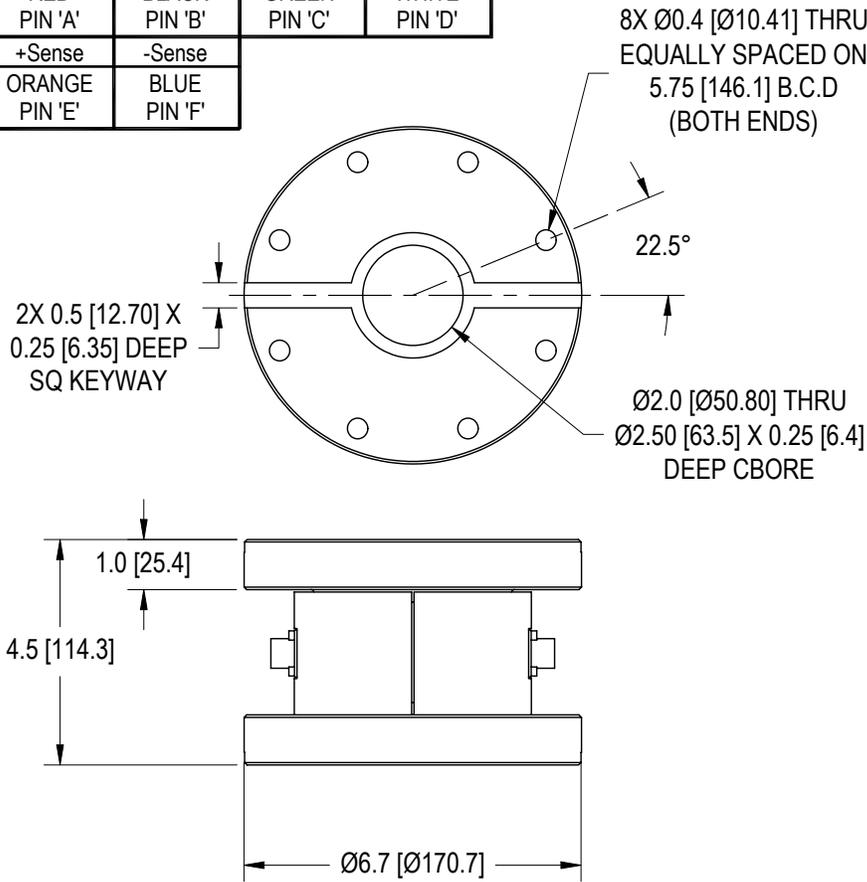
FUTEK MODEL QMA117

Reaction Torque and Thrust Flange to Flange Sensor

STOCK NUMBER: QSH01145

INCH (mm) | R.O. = Rated Output

WIRING CODE (CC1)			
+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	2 mV/V nom (Fz); 0.2 mV/V non (Mz)
CAPACITY	50000 lb (Fz); 2100 in-lb (Mz)
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±1% of R.O. (Fz); ±5% of R.O. (Mz)
EXCITATION (VDC OR VAC)	18 max
BRIDGE RESISTANCE	△ 350 Ω nom (Fz); 700 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 (15 to 72°C)
OPERATING TEMP.	-60 to 200°F (-50 to 93°C)
WEIGHT	22 lb
MATERIAL	17-4ph S.S. (Flexure); Anodized Aluminum (Cover)
CONNECTOR:	2x 6 PIN BENDIX CONNECTOR PTO2A-10-6P

NOTES:

- INTERNAL CIRCUITRY IS CONFORMALLY COATED WITH RTV
- SENSOR IS RATED TO IP61 WHEN MATING CONNECTORS ARE SECURED TO RECEPTACLES
- MAX SENSOR ROTATION NOT TO EXCEED 100 RPM

MATERIAL:

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HEAT TREATMENT - FINISH:

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REVISIONS: (Refer to dwg # revision sheet)

△ 7-2-08

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

3rd ANGLE PROJ.



ANGLE:
±1/2°

CHAMFER:
±5°

TOLERANCE:
.X ±0.1
.XX ±0.01
.XXX ±0.005

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CAGE: 1X8M6

MODEL: QMA117

DWG No.: FO1216-A

DRAWN BY: R. WALKER

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APPROVED BY: -

DATE: June 16, 2008