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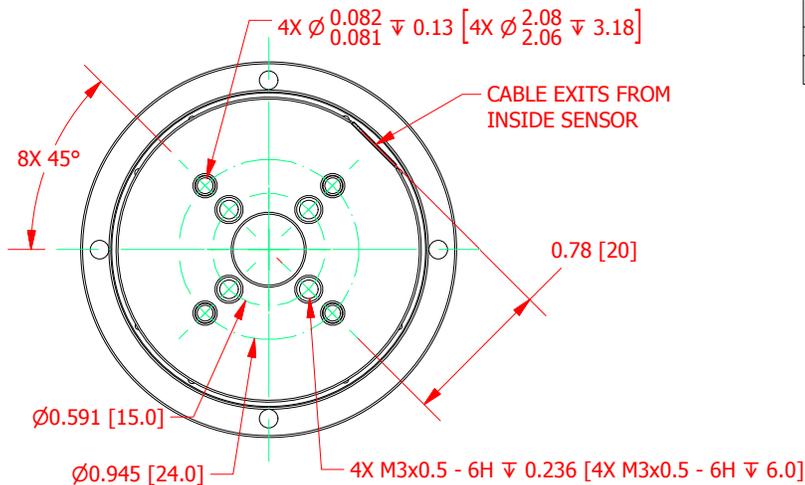
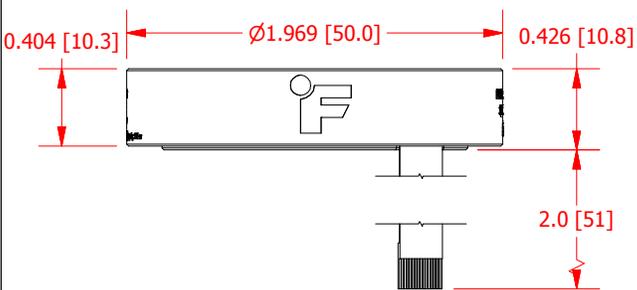
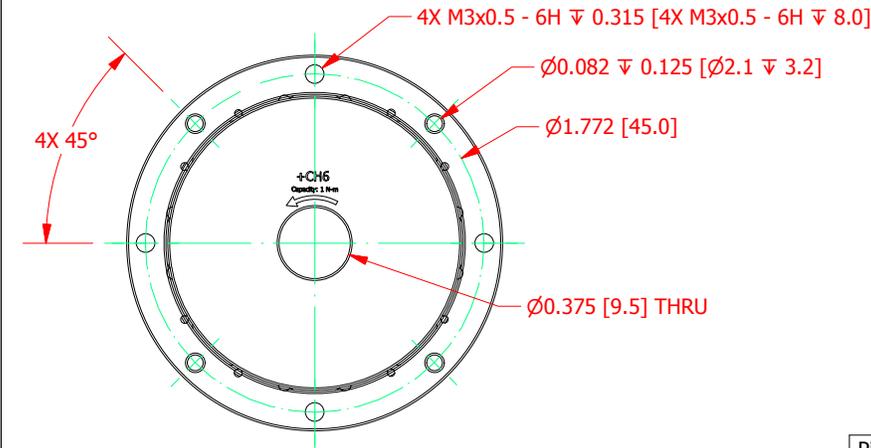
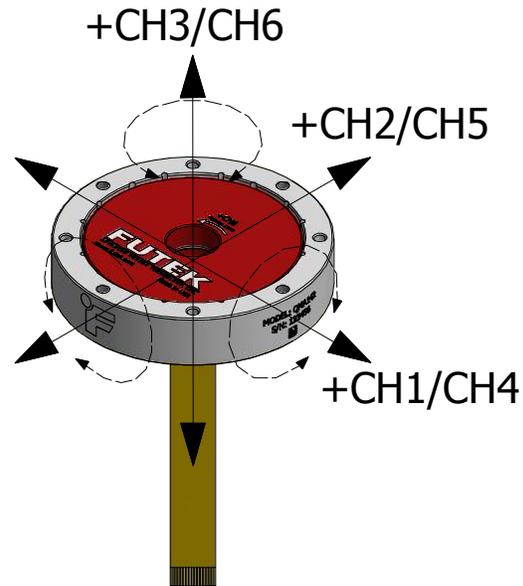
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# FUTEK MODEL QMA142

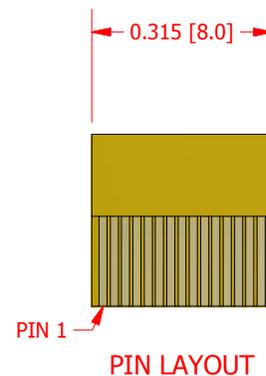
ITEM NUMBER: QSH01919

INCH [mm] R.O.= Rated Output

Specifications	CH1	CH2	CH3	CH4	CH5	CH6
Force/Torque	+Fx	+Fy	+Fz	+Mx	+My	+Mz
Rated Output	0.5 mV/V	0.5 mV/V	0.6 mV/V	1.4 mV/V	1.4 mV/V	2.4 mV/V
Capacity	15 N	15 N	15 N	1 N-m	1 N-m	1 N-m
Safe Overload	100 N	100 N	100 N	4 N-m	4 N-m	4 N-m
Bridge Resistance	1000 Ohm	2000 Ohm				



Pin Position	Output
PIN 1	+Excitation
PIN 2	-Excitation
PIN 3	+Signal Ch1
PIN 4	-Signal Ch1
PIN 5	+Signal Ch2
PIN 6	-Signal Ch2
PIN 7	+Signal Ch3
PIN 8	-Signal Ch3
PIN 9	+Signal Ch4
PIN 10	-Signal Ch4
PIN 11	+Signal Ch5
PIN 12	-Signal Ch5
PIN 13	+Signal Ch6
PIN 14	-Signal Ch6
PIN 15	N/A



### SPECIFICATIONS:

- RATED OUTPUT: See Chart
- CAPACITY: See Chart
- SAFE OVERLOAD: See Chart
- ZERO BALANCE: ±3% of R.O.
- EXCITATION (VDC OR VAC): 5 MAX
- BRIDGE RESISTANCE: See Chart
- NONLINEARITY: ±0.25% of R.O.
- HYSTERESIS: ±0.25% of R.O.
- NONREPEATABILITY: ±0.1% of R.O.
- CREEP: ±0.075% of R.O.
- TEMP. SHIFT ZERO: ±0.01% of R.O./°F (±0.036 of R.O./°C)
- TEMP. SHIFT SPAN: ±0.04% of LOAD/°F (±0.072 of LOAD/°C)
- COMPENSATED TEMP.: 60 to 160 °F (-51 to 71 °C)
- OPERATING TEMP.: -60 to 200 °F (-51 to 93 °C)
- WEIGHT (approx): 0.088 lb [40 g]
- MATERIAL: ALUMINUM
- CABLE: 15 Pin 0.5mm Pitch Flat Flex Cable

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"



# FUTEK

MODEL: **QMA142**

DRAWN BY: J. RUIZ

APPROVED BY: J. PARK

CHECKED BY:

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DWG No.: **FO1444**

CREATED DATE: 7/21/2017

APPROVED DATE: 7/25/2017

CAGE: 1X8M6 SHEET: 1 OF 1