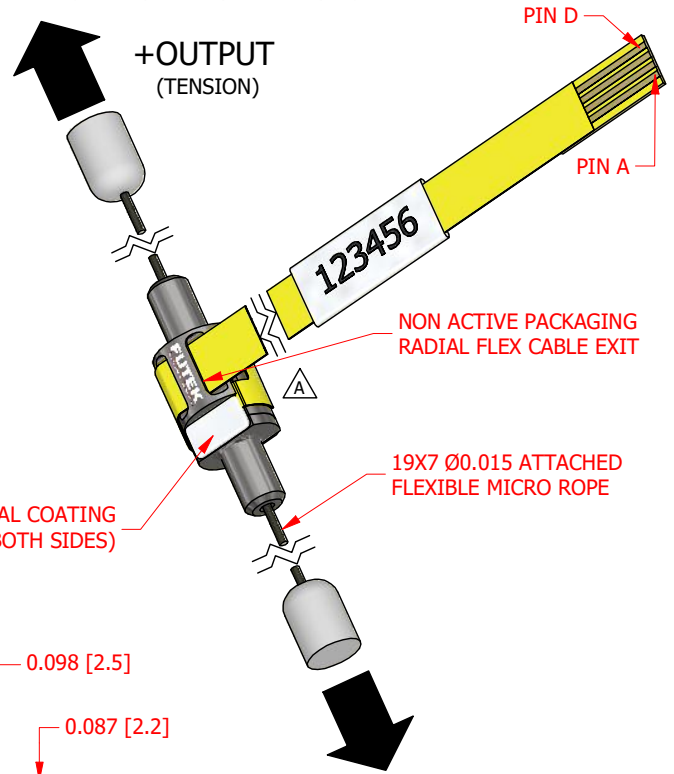
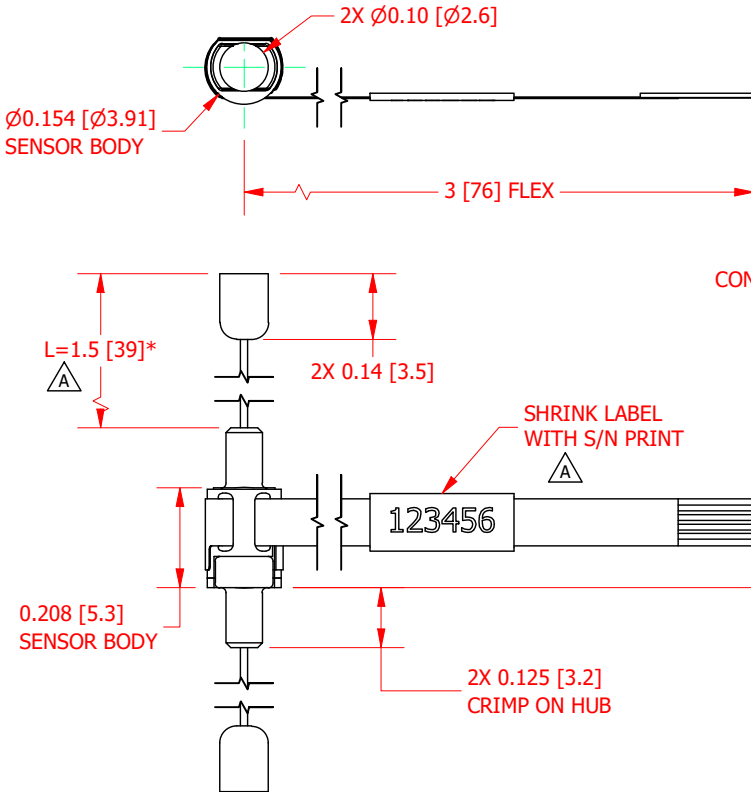


# FUTEK MODEL QLA427

ITEM NUMBER: QSH02272

## NANO SMART CRIMP, IN-LINE FORCE SENSOR

INCH [mm]		R.O.= Rated Output	
WIRING CODE			
+ Excitation	- Excitation	- Signal	+ Signal
RED	BLACK	WHITE	GREEN
PIN A	PIN B	PIN C	PIN D



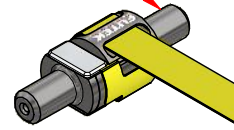
**MIX AND MATCH  
CUSTOM CONFIGURATIONS  
UPON REQUEST**

### SPECIFICATIONS:

RATED OUTPUT	1.2 mV/V nom.
CAPACITY	30 lb. [133.2N]
SAFE OVERLOAD	150 % of R.O.
ZERO BALANCE	$\pm 50\%$ of R.O.
EXCITATION (VDC OR VAC)	5 MAX
BRIDGE RESISTANCE	1000 $\Omega$ nom.
NONLINEARITY	$\pm 0.5\%$ of R.O.
HYSTERESIS	$\pm 0.5\%$ of R.O.
TEMP. SHIFT ZERO	$\pm 0.03\%$ of R.O./ $^{\circ}\text{F}$ ( $\pm 0.054$ of R.O./ $^{\circ}\text{C}$ )
TEMP. SHIFT SPAN	$\pm 0.02\%$ of LOAD/ $^{\circ}\text{F}$ ( $\pm 0.036$ of LOAD/ $^{\circ}\text{C}$ )
COMPENSATED TEMP.	60 to 160 $^{\circ}\text{F}$ (16 to 71 $^{\circ}\text{C}$ )
OPERATING TEMP	-60 to 200 $^{\circ}\text{F}$ (-51 to 93 $^{\circ}\text{C}$ )
WEIGHT (approx)	0.001 lb [0.5 g]
MATERIAL	17-4 PH S.S.
DEFLECTION	0.0005 [0.013] nom.
CABLE: 4PIN, 0.5MM PITCH FLEX	CABLE, 3 in [76] Long
ACCESSORIES:	BREAK OUT BOARD QSH02146
*INTEGRATED MICRO ROPE:	L=1.5in [38] / CUSTOMIZABLE $\triangle A$

WELD IN HUBS  
(CUSTOMIZABLE)

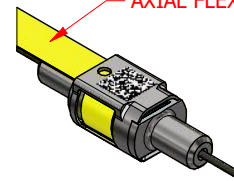
THRU HOLE  
 $\varnothing 0.028$  [0.7]



$\triangle A$

SECTION VIEW

AXIAL FLEX EXIT



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.

CUSTOMER APPROVAL- NAME / DATE:

STANDARD NOTES: (Unless Otherwise Specified)

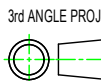
REVISIONS: (Refer to dwg # revision sheet)

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:  
 $\pm 1/2^{\circ}$

CHAMFER:  
 $\pm 5^{\circ}$

TOLERANCE:  
.X  $\pm 0.1^{\circ}$   
.XX  $\pm 0.01^{\circ}$   
.XXX  $\pm 0.005^{\circ}$



MODEL: **QLA427**

DWG No.: **FO1584-A**

DRAWN BY: S. VOSOUGH

CREATED DATE: 2/21/2022

APPROVED BY: M. LISIAK

APPROVED DATE: 2/21/2022

CHECKED BY:

CAGE: 1X8M6 SHEET: 1 OF 1