

# FUTEK MODEL QLA424

# NANO LOAD BUTTON

ITEM NUMBER: QSH02214

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

### WIRING CODE

+ Excitation	- Excitation	-Signal	+Signal
RED PIN A	BLACK PIN B	WHITE PIN C	GREEN PIN D

+OUTPUT  
(COMPRESSION)

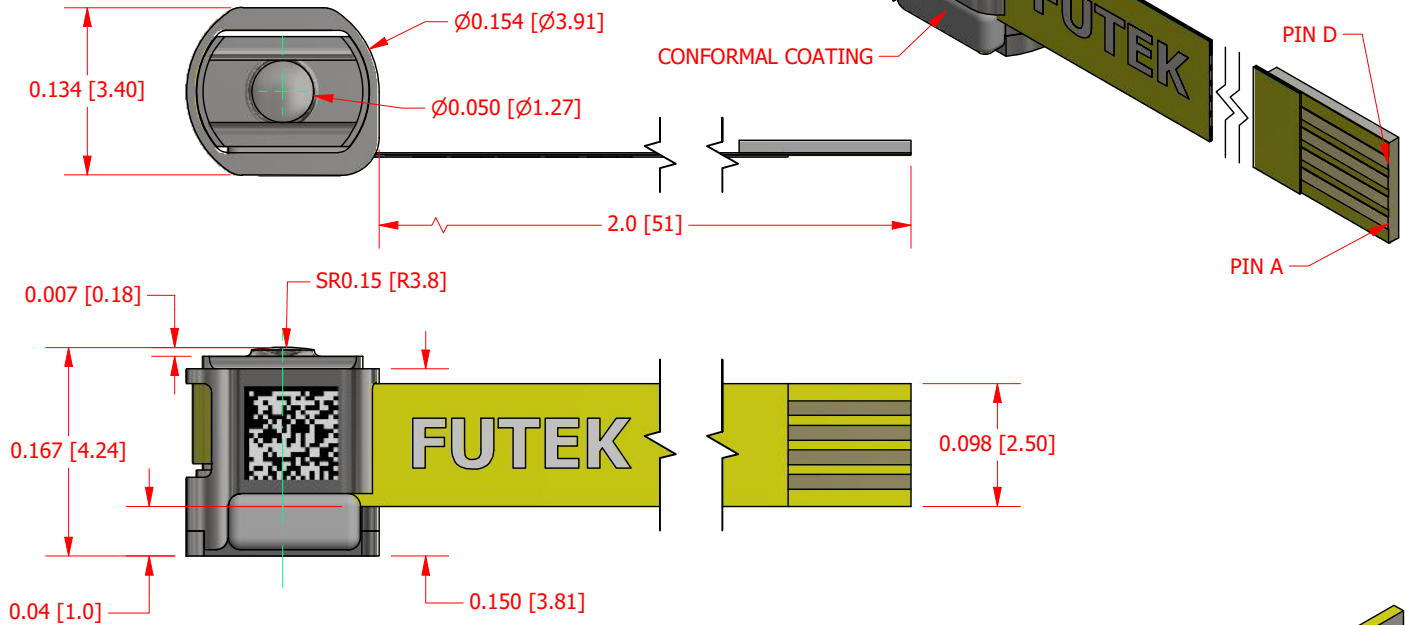
DO NOT LOAD  
ON ENCLOSURE

QR CODE - CONTAINS S/N

CONFORMAL COATING

PIN D

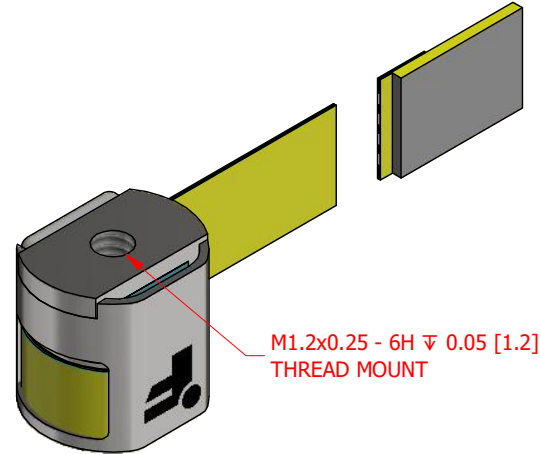
PIN A



### SPECIFICATIONS:

RATED OUTPUT	1.5 mV/V nom.
CAPACITY	30 lb
SAFE OVERLOAD	150 % of R.O.
EXCITATION (VDC OR VAC)	2V (5V MAX*)
BRIDGE RESISTANCE	1000 $\Omega$ nom.
NONLINEARITY	$\pm 0.5\%$ of R.O.
HYSTERESIS	$\pm 0.5\%$ of R.O.
TEMP. SHIFT ZERO	$\pm 0.02\%$ of R.O./ $^{\circ}$ F ( $\pm 0.036$ of R.O./ $^{\circ}$ C)
TEMP. SHIFT SPAN	$\pm 0.02\%$ of LOAD/ $^{\circ}$ F ( $\pm 0.036$ of LOAD/ $^{\circ}$ C)
COMPENSATED TEMP.	60 to 160 $^{\circ}$ F (16 to 71 $^{\circ}$ C)
OPERATING TEMP	-60 to 200 $^{\circ}$ F (-51 to 93 $^{\circ}$ C)
WEIGHT (approx)	0.001 lb [0.5 g]
MATERIAL	17-4 PH S.S.
DEFLECTION	0.0002 [0.005] nom.

CABLE: 4 Pin, 0.5 mm pitch, 2" flex  
\*2V EXC RECOMMENDED / 5V MAX (REQUIRES WARM UP)



BOTTOM VIEW

M1.2x0.25 - 6H  $\nabla$  0.05 [1.2]  
THREAD MOUNT

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

CUSTOMER APPROVAL- NAME / DATE:

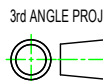
STANDARD NOTES: (Unless Otherwise Specified)

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

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

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



REVISIONS: (Refer to dwg # revision sheet)

MODEL: **QLA424**

DWG No.: **FO1536-0**

DRAWN BY: M. LISIAK

CREATED DATE: 7/27/2021

APPROVED BY: S. VOSOUGH

APPROVED DATE: 2/4/2022

CHECKED BY:

CAGE: 1X8M6 SHEET: 1 OF 1