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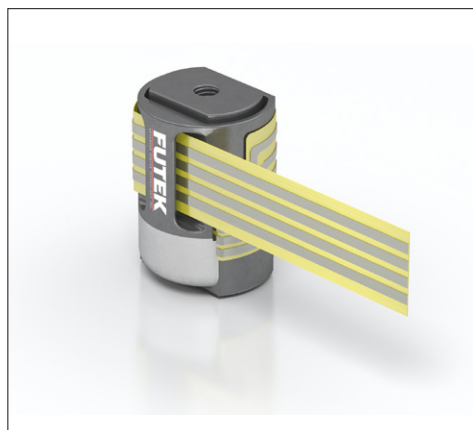
Business Hours: Monday - Friday 8.30am - 6.15pm

Sensor Solution Source

Load · Torque · Pressure · Multi Axis · Calibration · Instruments · Software

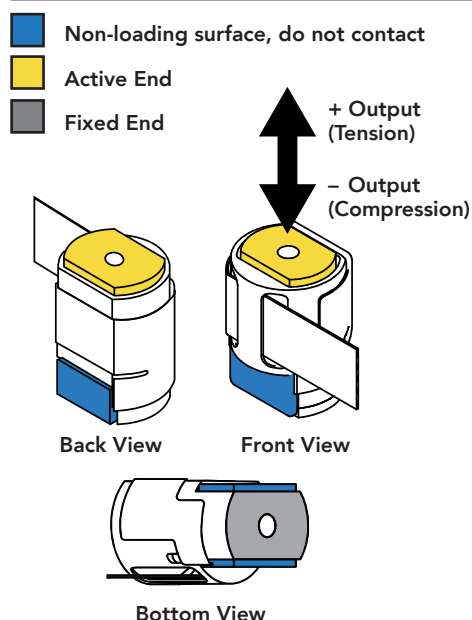
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FEATURES

- Very lightweight (0.5g), Nano miniature size (4x5 mm)
- Lowest deflection in FUTEK sensor line
- For use in both tension and compression
- Through hole design with mounting provisions
- Ø 0.028 [Ø 0.70] Through-hole diameter
- Low Power Consumption suitable for wearable or portable devices
- High Safe Overload Capability
- High Natural Frequency
- Ultra High Stiffness



SPECIFICATIONS

PERFORMANCE

Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Non-repeatability	±0.2%

ELECTRICAL

Rated Output (RO)	0.5 mV/V nom
Excitation (VDC or VAC)	5 V max
Bridge Resistance	1000 Ohm nom
Zero Balance	±50% of RO
Insulation Resistance	5G Ohm @ 50 VDC
Connection	4 Pin, 0.5 mm pitch 3" flex cable
Wiring Code	WC8

MECHANICAL

Weight	0.001 lb [0.5 g]
Safe Overload	Up to 300% of R.O.
Deflection	0.00005 in [0.00127 mm]
Material	17-4 PH Stainless Steel
IP Rating	IP40

TEMPERATURE

Operating Temperature	-60 to 200°F [-51 to +93°C]*
Compensated Temperature	60 to 160°F [16 to 71°C]
Temperature Shift Zero	±0.03% of RO/°F [±0.054% of RO/°C]
Temperature Shift Span	±0.02% of LOAD/°F [±0.036% of LOAD/°C]
Relative Humidity	70%

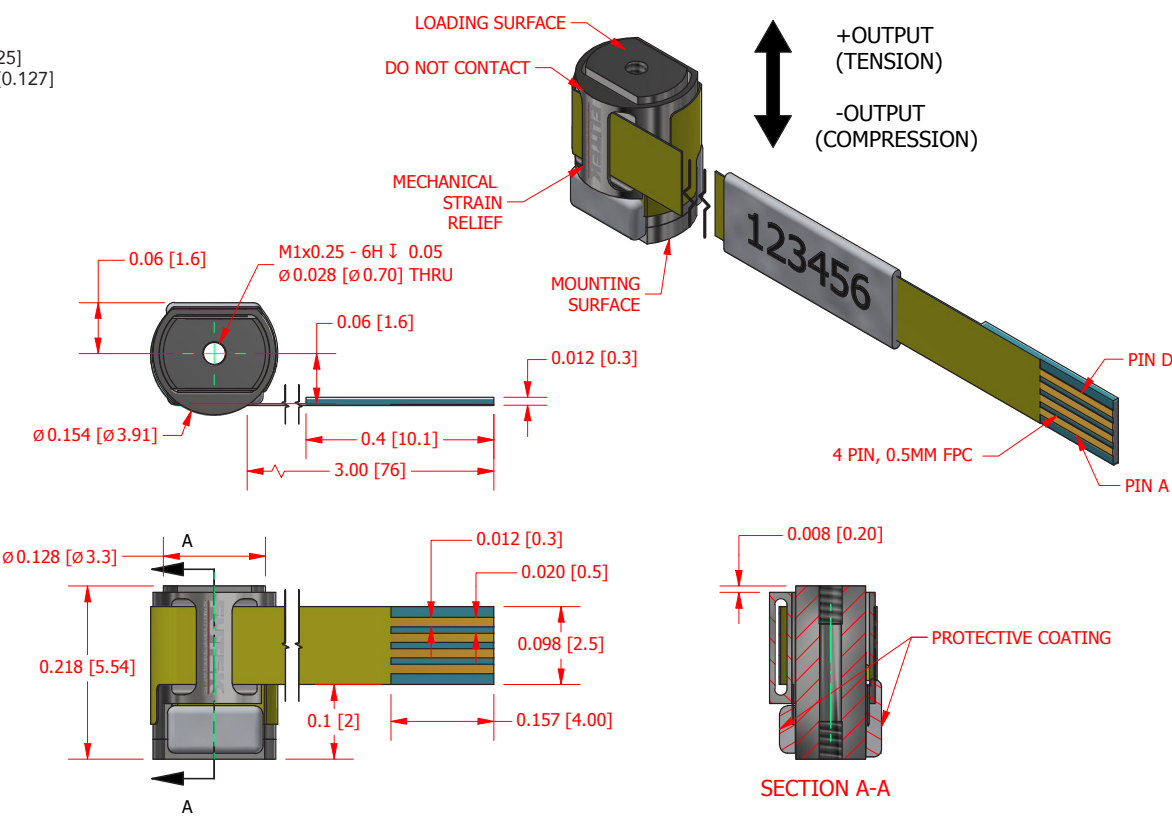
CONFORMITY

RoHS	EU 2015/863
CE	EN55011; EN61326-1

*in a humidity controlled environment to prevent condensation

DIMENSIONS inches [mm]

TOLERANCE:
.X ± 0.1" [2.5]
.XX ± 0.01" [0.25]
.XXX ± 0.005" [0.127]



WIRING CODE WC8		
PIN	COLOR	
A	RED	+ EXCITATION
B	BLACK	- EXCITATION
C	WHITE	- SIGNAL
D	GREEN	+ SIGNAL

CAPACITIES			
ITEM #	lb	N	Natural Frequency (kHz)
QSH02142	5	22.2	71
QSH02143	10	44.5	98

Drawing Number: FI1524-B

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