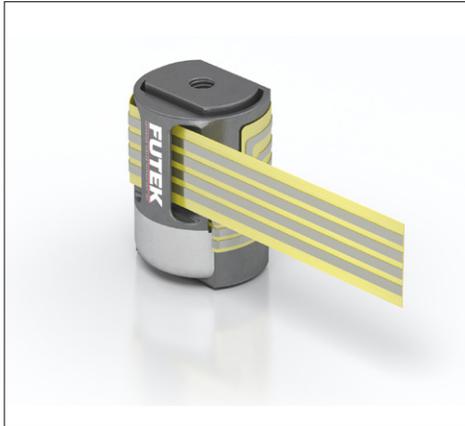


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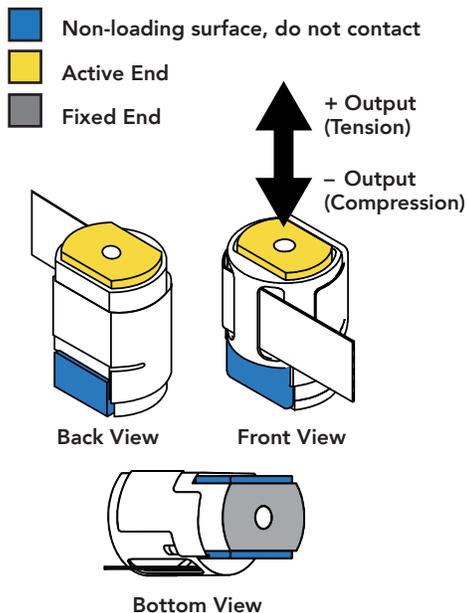
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FEATURES

- 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% |

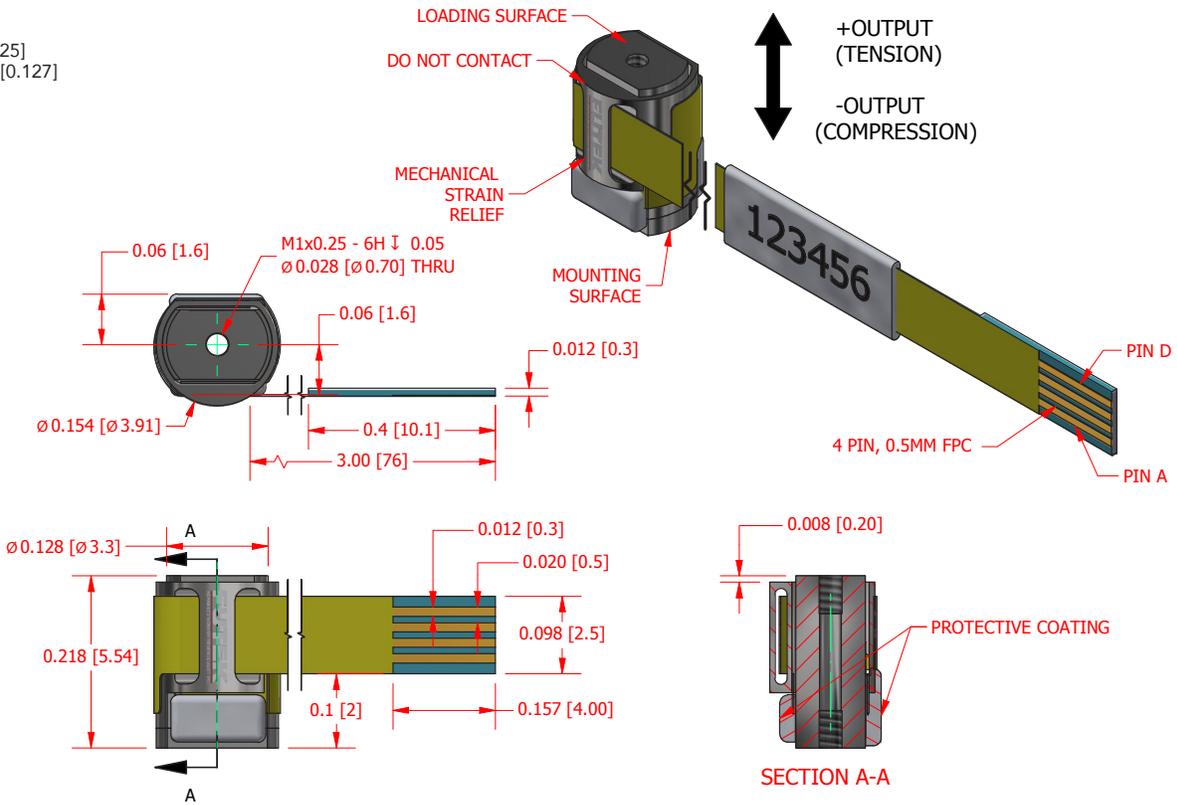
CONFORMITY

| | |
|------|--------------------|
| 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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RoHS



U.S. Manufacturer