

## Tri-axial IEPE accelerometer



### Dynamic

|                                  |                 |
|----------------------------------|-----------------|
| Sensitivity, ±10%, 25°C.....     | 500 mV/g        |
| Acceleration range .....         | 10 g peak       |
| Amplitude nonlinearity.....      | 1%              |
| Frequency response:              |                 |
| ± 5%.....                        | 2 - 4,000 Hz    |
| ±1dB.....                        | 1.5 - 10,000 Hz |
| ± 3 dB.....                      | 0.6 - 12,000 Hz |
| Resonance frequency.....         | 40 kHz          |
| Transverse sensitivity, max..... | 5% of axial     |
| Temperature response:            |                 |
| -50°C.....                       | -10%            |
| +120°C.....                      | +10%            |

### Electrical

|  |               |
|--|---------------|
| Power requirement: voltage source .....  | 18 - 30 VDC   |
| current regulating diode .....           | 2 - 10 mA     |
| Electrical noise, Broadband Spectral(g): |               |
| 1 Hz to 10 kHz.....                      | 500µg         |
| Output impedance, max.....               | 100Ω          |
| Bias output voltage.....                 | 10 VDC        |
| Grounding.....                           | Case grounded |

### Environmental

|   |                 |
|---|-----------------|
| Temperature range.....                          | -50 to 120°C    |
| Vibration limit.....                            | 500 g peak      |
| Shock limit.....                                | 5,000 g peak    |
| Electromagnetic sensitivity, equiv g, max ..... | 70 µg/gauss     |
| Sealing .....                                   | Hermetic        |
| Base strain sensitivity, max.....               | 0.0002 gµstrain |

### Physical

|                             |                   |
|-----------------------------|-------------------|
| Sensing element design..... | PZT ceramic/shear |
| Weight.....                 | 12 grams          |
| Case material.....          | Titanium          |
| Output connector.....       | 4 pin             |

### Accessories

Mounting stud: M5(-M), 10-32(-E), or W/O

Mating cable with BNCx3 output

Calibration certificate

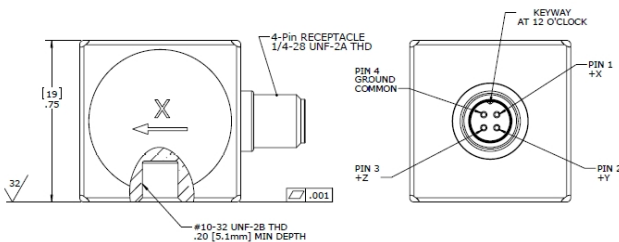
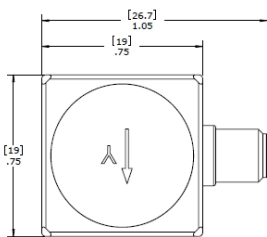
Note: Frequency response limits spectral and noise values are typical

### Features

- Tri-axial measurement
- Miniature cube
- Adhesive or stud mounting
- Hermetic seal
- Annular shear mode
- Wide temperature range
- Wide frequency response

### Application

- Vibration monitoring
- Shock testing
- Road testing
- Modal analysis
- Aircraft testing



### Ordering Information

