

UEB332 Series

Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Top Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

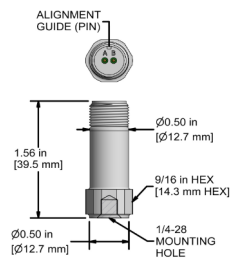
High Frequency Ultrasound Accelerometer

- ▶ High Amplitude Resonance Peak for Stress Wave Measurement Techniques
 - ▶ IEPE Amplifier Technology
 - ▶ 2 Pin Mini-MIL Connection or Integral Cable
- Note: Integral Cable Options are only for Permanent Monitoring Applications

UEB332

2 Pin Connector

| Connector Pin | Polarity |
|---------------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |

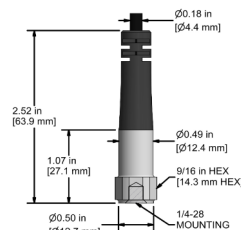


Stock Product

UEB432

Integral Cable

| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |

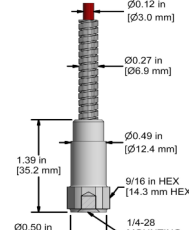


Built To Order

UEB532

Armored Integral Cable

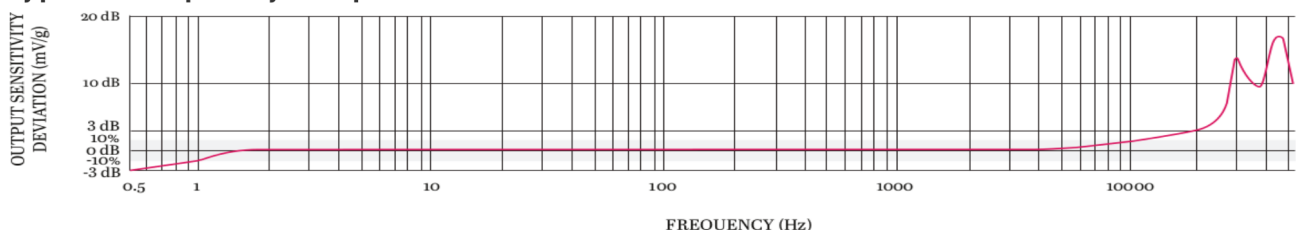
| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|------------------|-----------------------|-----------------------------|---------------------------|------------------------------------|
| Part Number | UEB332 | M/UEB332 | Environmental | | |
| Sensitivity (±10%) | 100 mV/g | | Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 30-1,380,000 CPM | 0.5 Hz-23 kHz | Maximum Shock Protection | | 10,000g, peak |
| Frequency Response (±10%) | 60-600,000 CPM | 1 Hz-10 kHz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | ± 50g, peak | Sealing | | Welded, Hermetic |
| Peak Sensitivity | | +21 dB ± 2 dB | SIL Rating | | SIL 2 |
| Electrical | | | Physical | | |
| Settling Time | | < 2 Seconds | Sensing Element | | PZT Ceramic |
| Voltage Source (IEPE) | | 18-30 VDC | Sensing Structure | | Shear Mode |
| Constant Current Excitation | | 2-10 mA | Weight | | 0.7 oz / 20 g |
| Spectral Noise @ 10 Hz | | 30 µg/√Hz | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 100 Hz | | 4 µg/√Hz | Mounting | | 1/4-28 UNF |
| Spectral Noise @ 1000 Hz | | 2 µg/√Hz | Connector (Non-Integral) | | 2 Pin mini-MIL, J Series Connector |
| Output Impedance | | < 100 ohm | Resonant Frequency | 2,520,000 CPM ±12,000 CPM | 42 kHz ±2kHz |
| Bias Output Voltage | | 10-14 VDC | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| Case Isolation | | > 10 ⁸ ohm | Mounting Hardware | 1/4-28 Stud | M6x1 Adapter Stud |
| | | | Calibration Certificate | | CA10 |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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