

# 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

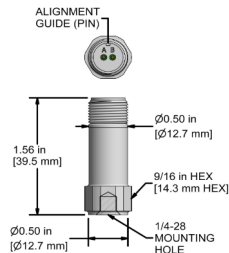
### High Frequency Ultrasound Accelerometer

- ▶ 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

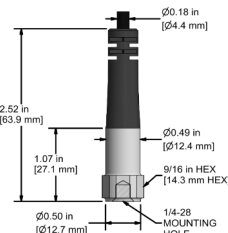


Stock Product

### UEB432

Integral Cable

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

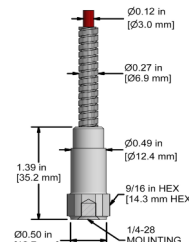


Built To Order

### 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	UEB342	<b>Environmental</b>		
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	
<b>Electrical</b>			<b>Physical</b>		
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	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 <sup>8</sup> ohm		Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

## Typical Frequency Response

