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

CE

Product Features

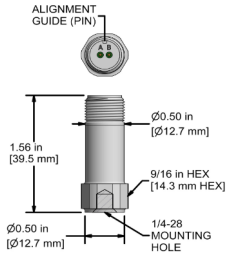
High Frequency Ultrasound Accelerometer

High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- For high-frequency fault detection, use with analyzers supporting ≥100 ks/s sample rate
- IEPE Amplifier Technology
- Suggested Magnetic Mounting Bases: MH136-1A Flat Surface Magnet or MH137-1A Curved Surface Magnet

UEB332
2 Pin Connector

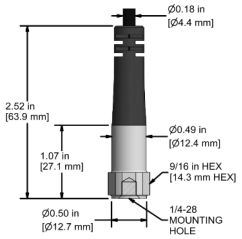
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

UEB432
Integral Cable

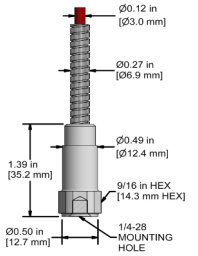
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

UEB532
Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	UEB332	M/ or M8/UEB332
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-1,320,000 CPM	0.5 Hz-22 kHz
Frequency Response (±10%)	60-960,000 CPM	1 Hz-16 kHz
Dynamic Range	± 80g, peak *Vsource ≥ 22V, 12Vbias	
Peak Sensitivity	+21 dB ± 2 dB	
Saturation Time	≤5%	
Electrical		
Settling Time	< 2 Seconds	
Voltage Source	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	30 µg/√Hz	
Spectral Noise @ 100 Hz	4 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	> 10^8 ohm	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Maximum Shock Protection	10,000g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	0.7 oz	20 g
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 UNF	
Connector (Non-Integral)	2 Pin mini-MIL, J Series Connector	
Resonant Frequency	2,520,000 CPM ±12,000 CPM	42 kHz ±2kHz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Calibration Certificate	CA10	

Typical Frequency Response