

UEB334 Series

Low Cost, Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Top Exit 2 Pin Mini-MIL Connector, 100 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



Product Features

High Frequency Ultrasound Accelerometer

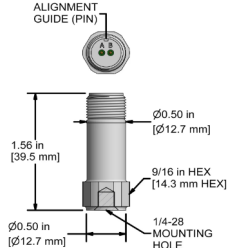
High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- ▶ 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

UEB334

2 Pin Connector

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

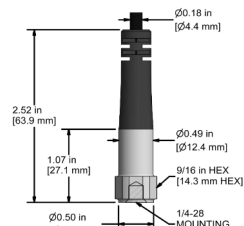


Stock Product

UEB434

Integral Cable

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

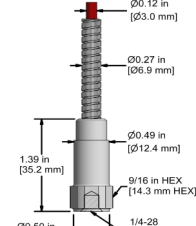


Built To Order

UEB534

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	UEB334	M/ or M8/UEB334	Environmental		
Sensitivity ($\pm 15\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	30-840,000 CPM	0.5 Hz-14 kHz	Maximum Shock Protection	10,000g, peak	
Frequency Response ($\pm 10\%$)	60-600,000 CPM	1 Hz-10 kHz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
Peak Sensitivity	+21 dB ± 2 dB		Submersible Depth	200 ft.	60 m
Transverse Sensitivity	$\leq 5\%$		SIL Rating	SIL 2	
Electrical			Physical		
Settling Time	< 2 Seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	0.7 oz	20 g
Spectral Noise @ 10 Hz	30 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 μ g/ $\sqrt{\text{Hz}}$		Mounting Thread	1/4-28 UNF	
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin mini-MIL, J Series Connector	
Output Impedance	< 100 ohm				
Bias Output Voltage	10-14 VDC				
Case Isolation	> 10^8 ohm				
			Resonant Frequency	2,520,000 CPM $\pm 12,000$ CPM	42 kHz ± 2 kHz
			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

