

UEA332 Series

Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Side 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

- ▶ For use with MH149-1A Magnet & MH130-4A Mounting Target

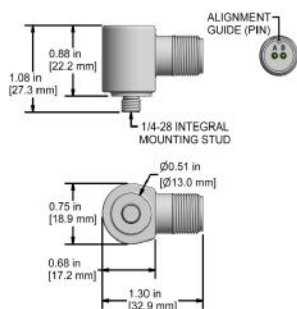
- ▶ IEPE Amplifier Technology

- ▶ 2 Pin Mini-MIL Connection or Integral Cable
Note: Integral Cable Options are only for Permanent Monitoring Applications

UEA332

2 Pin Connector

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

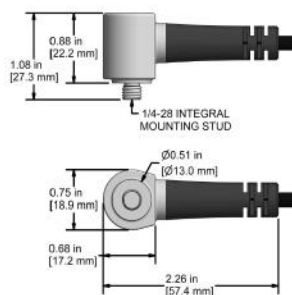


Stock Product

UEA432

Molded Integral Cable

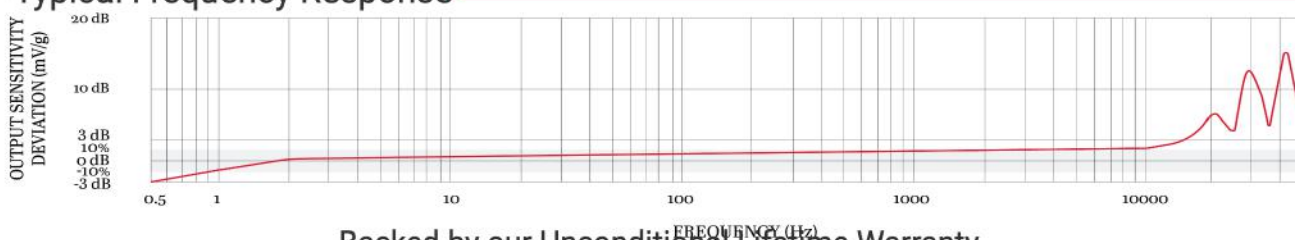
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	UEA332		Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-1,020,000 CPM	1 Hz - 17 kHz	Maximum Shock Protection		10,000g, peak
Frequency Response (±10%)	120-600,000 CPM	2 Hz - 10 kHz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80g, peak *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
Peak Sensitivity		+21 dB ± 2 dB	Physical		
Electrical			Sensing Element		PZT Ceramic
Settling Time		< 2 Seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-30 VDC	Weight	1.5 oz	43 grams
Constant Current Excitation		2-10 mA	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		30 µg/√Hz	Mounting Thread		1/4-28 Integral Stud
Spectral Noise @ 100 Hz		4 µg/√Hz	Connector (Non-Integral)		2 Pin mini-MIL, J Series Connector
Spectral Noise @ 1000 Hz		2 µg/√Hz	Resonant Frequency	520,000 CPM ±12,000 CPM	42 kHz ±2kHz
Output Impedance		< 100 ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		> 10 ⁸ ohm			

Typical Frequency Response



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UEA334 Series

Low Cost, Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±20%



VIBRATION ANALYSIS HARDWARE



Product Features

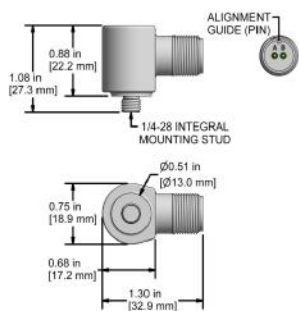
High Frequency Ultrasound Accelerometer
High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- ▶ For use with MH149-1A Magnet & MH130-4A Mounting Target
- ▶ IEPE Amplifier Technology
- ▶ 2 Pin Mini-MIL Connection or Integral Cable
Note: Integral Cable Options are only for Permanent Monitoring Applications

UEA334

2 Pin Connector

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

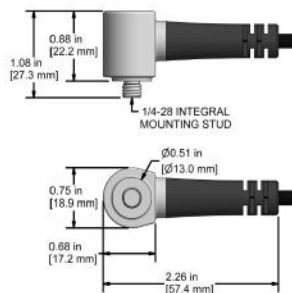


Stock Product

UEA434

Molded Integral Cable

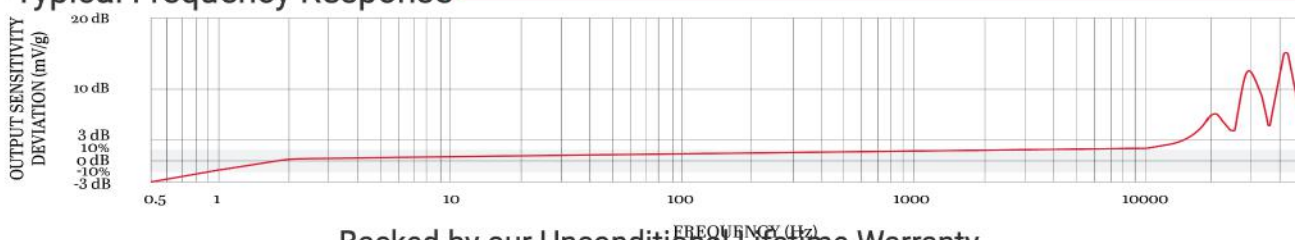
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	UEA334		Environmental		
Sensitivity (±20%)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-1,020,000 CPM	1 Hz - 7 kHz	Maximum Shock Protection	10,000g, peak	
Frequency Response (±10%)	120-600,000 CPM	2 Hz - 10 kHz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80g, peak		Sealing	Welded, Hermetic	
Peak Sensitivity	*Vsource ≥ 22V, 12Vbias	+21 dB ± 2 dB	Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	< 2 Seconds		Sensing Structure	Shear Mode	
Voltage Source (IEPE)	18-30 VDC		Weight	1.5 oz	43 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	30 µg/√Hz		Mounting Thread	1/4-28 Integral Stud	
Spectral Noise @ 100 Hz	4 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL, J Series Connector	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Resonant Frequency	520,000 CPM ±12,000 CPM	42 kHz ±2kHz
Output Impedance	< 100 ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	> 10 ⁸ ohm				

Typical Frequency Response



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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

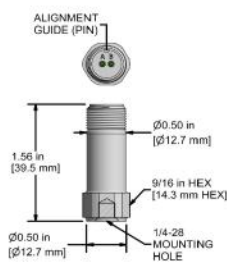
High Frequency Ultrasound Accelerometer

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 - ▶ 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

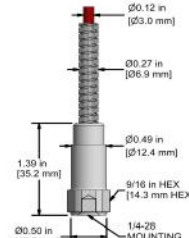


Built To Order

UEB532

Armored Integral Cable

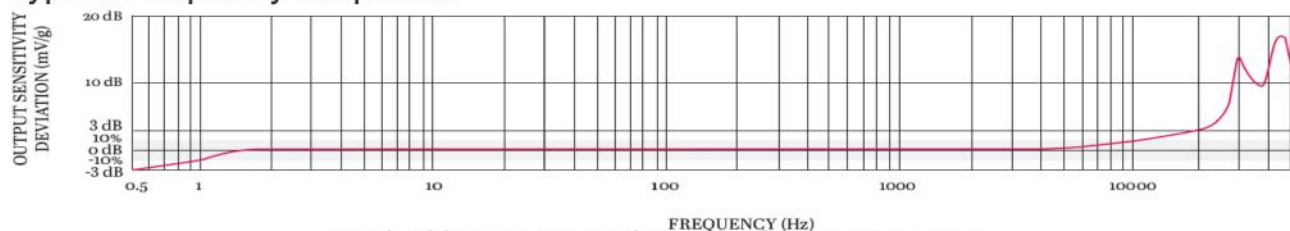
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	UEB332	M/UEB332	Environmental		
Sensitivity (±10%)	100 mV/g		Operating 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	± 80g, 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 Thread	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 Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



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Product Features

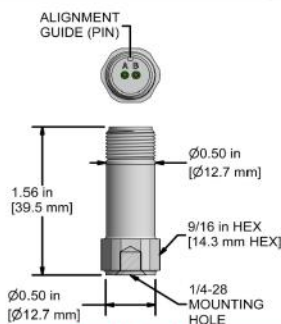
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UEB334

2 Pin Connector

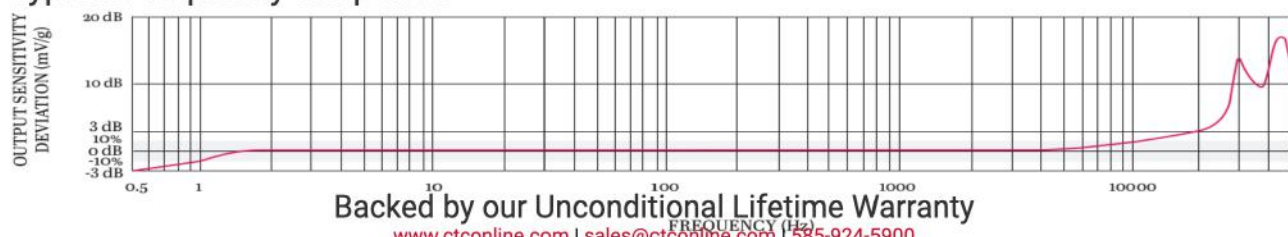
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

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Frequency Response (±10%)	60-600,000 CPM	1 Hz-10 kHz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80g, peak *V _{source} ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
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Electrical			Physical		
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