

UEA334 Series

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



Product Features

High Frequency Ultrasound Accelerometer with IEPE Amplifier Technology

High Amplitude Resonance Peak for Stress Wave Measurement Techniques

► For Use with MH149-1A Magnet and MH130-4A Mounting Target

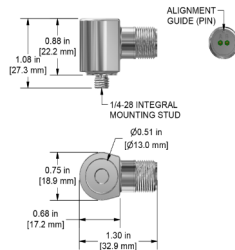
► For high-frequency fault detection, use with analyzers supporting ≥ 100 ks/s sample rate

► 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

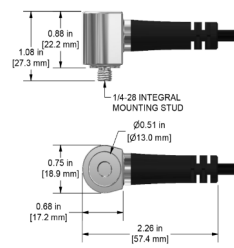


Stock Product

UEA434

Molded Integral Cable

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

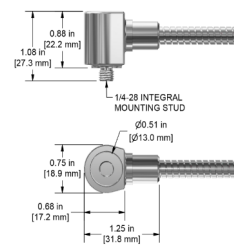


Built To Order

UEA534

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	UEA334		<u>Environmental</u>		
Sensitivity (±15%)	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	
Dynamic Range	± 80g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
Peak Sensitivity	+21 dB ± 2 dB		Sealing	Welded, Hermetic	
Transverse Sensitivity	≤5%		Submersible Depth	200 ft.	60 m
<u>Electrical</u>			<u>Physical</u>		
Settling Time	< 2 Seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	1.5 oz	43 grams
Spectral Noise @ 10 Hz	30 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 µg/√Hz		Mounting Thread	1/4-28 Integral Stud	
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 ⁸ ohm		Calibration Certificate	CA10	

Typical Frequency Response

