

UEA334 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

High Frequency Ultrasound Accelerometer with IEPE Amplifier Technology

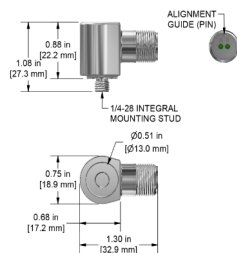
High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- ▶ 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

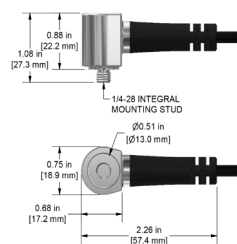


Stock Product

UEA434

Molded Integral Cable

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

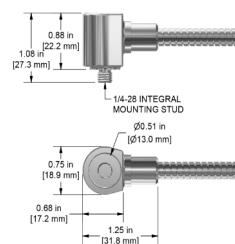


Built To Order

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		Environmental		
Sensitivity ($\pm 15\%$)		100 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	60-1,020,000 CPM	1 Hz - 17 kHz	Maximum Shock Protection		10,000g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22 V, 12Vbias	Electromagnetic Sensitivity		CE
Peak Sensitivity		+21 dB ± 2 dB	Sealing		Welded, Hermetic
Transverse Sensitivity		$\leq 5\%$	Submersible Depth	200 ft.	60 m
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	1.5 oz	43 grams
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 Integral Stud
Spectral Noise @ 1000 Hz		2 μ g/ $\sqrt{\text{Hz}}$	Connector (Non-Integral)		2 Pin mini-MIL, J Series Connector
Output Impedance		< 100 ohm	Resonant Frequency	520,000 CPM $\pm 12,000$ CPM	42 kHz ± 2 kHz
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

