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

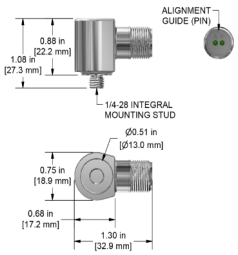
High Frequency Ultrasound Accelerometer with IEPE Amplifier Technology

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

UEA332
2 Pin Connector

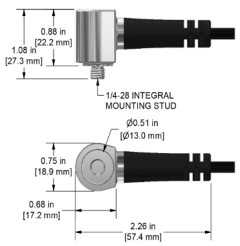
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

UEA432
Molded Integral Cable

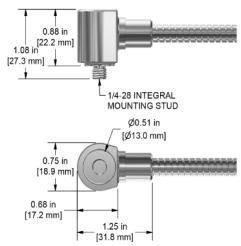
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

UEA532
Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	UEA332	
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	60-1,020,000 CPM	1 Hz - 17 kHz
Frequency Response (±10%)	120-450,000 CPM	2 Hz - 7.5 kHz
Dynamic Range	± 80g, peak *Vsource ≥ 22V, 12Vbias	
Peak Sensitivity	+21 dB ± 2 dB	
Transverse Sensitivity	≤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
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	1.5 oz	43 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Integral Stud	
Connector (Non-Integral)	2 Pin mini-MIL, J Series Connector	
Resonant Frequency	520,000 CPM ±12,000 CPM	42 kHz ±2kHz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Calibration Certificate	CA10	

Typical Frequency Response