

UEA332 Series

Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, $\pm 10\%$



Product Features

High Frequency Ultrasound Accelerometer with IEPE Amplifier Technology

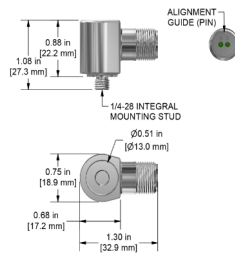
High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- ▶ 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

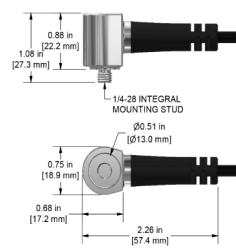


Stock Product

UEA432

Molded Integral Cable

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

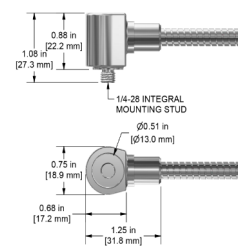


Built To Order

UEA532

Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	UEA332		Environmental		
Sensitivity ($\pm 10\%$)	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	
Frequency Response ($\pm 10\%$)	120-450,000 CPM	2 Hz - 7.5 kHz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Sealing	Welded, Hermetic	
Peak Sensitivity	+21 dB ± 2 dB		Submersible Depth	200 ft.	60 m
Transverse Sensitivity	$\leq 5\%$		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	< 2 Seconds		Sensing Structure	Shear Mode	
Voltage Source	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 μ g/ $\sqrt{\text{Hz}}$		Mounting Thread	1/4-28 Integral Stud	
Spectral Noise @ 100 Hz	4 μ g/ $\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin mini-MIL, J Series Connector	
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		Resonant Frequency	520,000 CPM $\pm 12,000$ CPM	42 kHz ± 2 kHz
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

