

UEA360 Series

High Frequency, Low Profile Ultrasound Accelerometer with Integrated Rotating Locking Nut, Side Exit Molded Integral Cable, 100 mV/g, $\pm 10\%$



Product Features

High Frequency Ultrasound Sensor Features an Integrated, Rotating Mounting Base for Easy Sensor Positioning

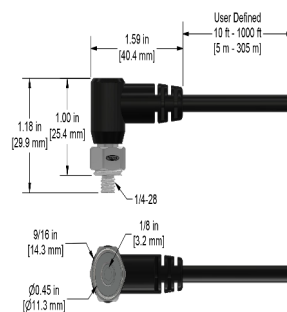
High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- ▶ Designed for Low-Profile, Permanent Ultrasound Monitoring Applications
- ▶ Frequency Response (-3dB, +3.2 dB): 1 - 20 kHz (60 - 1,200,000 CPM)
- ▶ Frequency Response ($\pm 10\%$): 2 - 9.5 kHz (120 - 570,000 CPM)

UEA360-2A

CB110 Integral Cable

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	UEA360	M/UEA360	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Dynamic Range	$\pm 80g$, peak		Maximum Shock Protection	10,000 g, peak	
	*V _{source} $\geq 22V$, 12V/bias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	$\leq 5\%$		Sealing	IP68	
Electrical			Submersible Depth	200 ft.	61 m
Settling Time	< 2 Seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	30 $\mu g/\sqrt{Hz}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 $\mu g/\sqrt{Hz}$		Weight	0.7 ounces	20 grams
Spectral Noise @ 1000 Hz	2 $\mu g/\sqrt{Hz}$		Case Material	Polyurethane Molded with 316L Stainless Steel Base	
Output Impedance	< 100 ohm		Mounting Thread	1/4-28	
Bias Output Voltage	10-14 VDC		Cable Jacket Diameter	0.175 in. (4.5 mm)	
Case Isolation	> 10^8 ohm		Cable Jacket Material	Polyurethane	
			Cable Conductor	20 AWG Twisted Shielded Pair	
			Resonant Frequency	1,860,000 $\pm 12,000$ CPM	31 kHz ± 2 kHz
			Mounting Torque	1.5 - 2.5 ft. lbs	2.0 to 3.4 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

