

AC133 Series

Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

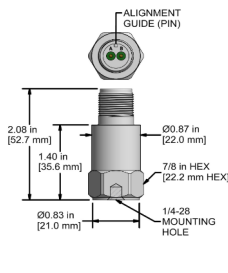
Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but can also be used for High Frequency Detection.

Can be used with any application that requires low and high frequency measurements.

- ▶ 500 mV/g Sensitivity, ±10% Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10,000 Hz for High Frequency Detection

AC133-1D 2 Pin Connector

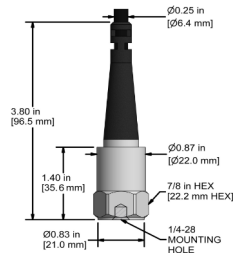
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC133-2D CB103 Integral Cable

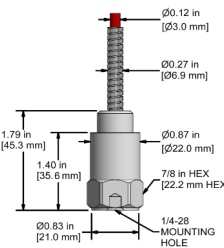
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC133-3D CB206 Armored Integral Cable

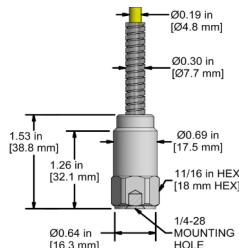
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC133-6D CB611 Heavy Duty 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	AC133	M/ or M8/AC133	Environmental		
Sensitivity (±10%)	500 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	3.4 oz	92 grams
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Case Material	316L Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,080,000	18000 Hz