

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.

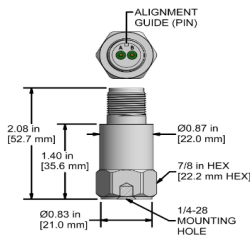
Can be used with any application that requires low and high frequency measurements.

- ▶ 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

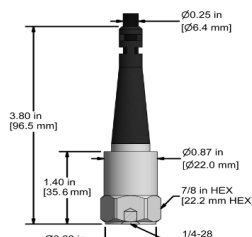


Stock Product

AC133-2D

CB103 Integral Cable

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

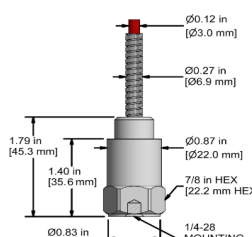


Built To Order

AC133-3D

CB206 Armored Integral Cable

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

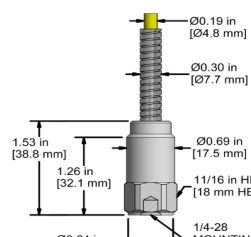


Built To Order

AC133-6D

CB611 Heave Duty Armored Integral Cable

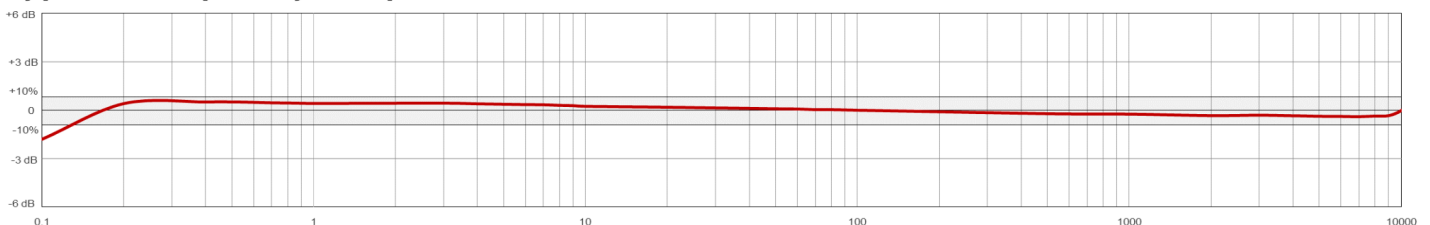
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC133	M/AC133	Environmental		
Sensitivity (±10%)		500 mV/g	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		± 10 g, peak	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 Stainless Steel
Output Impedance		<100 ohm	Mounting		1/4-28
Bias Output Voltage		10-14 VDC	Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation		>10 ⁸ ohm	Resonant Frequency	1,080,000 CPM	18000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



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