AC133 Series

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

VIBRATION ANALYSIS HARDWARE

Product Features

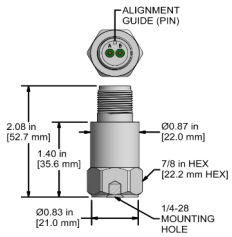
Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but can also be used for High Frequency Detection.

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

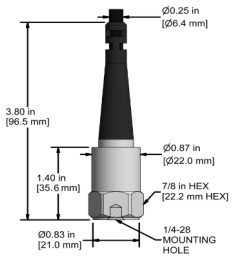
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC133-2D
CB103 Integral Cable

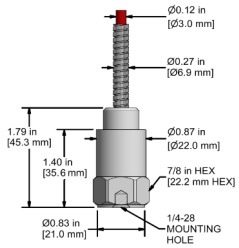
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC133-3D
CB206 Armored Integral Cable

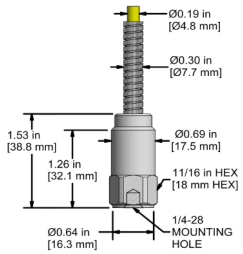
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC133-6D
CB611 Heave Duty Armored Integral Cable

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

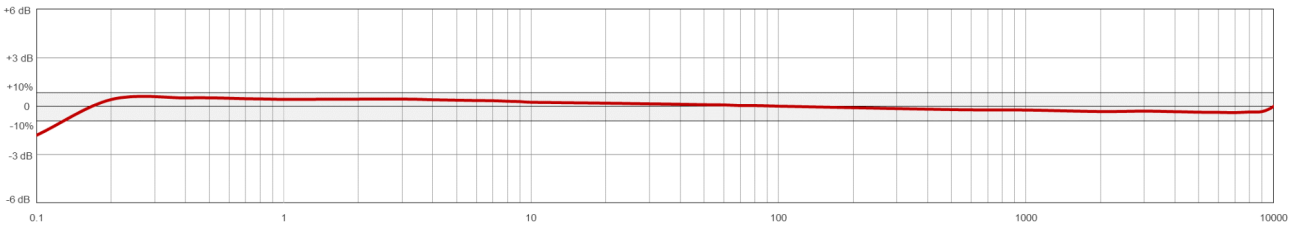


Built To Order

Specifications	Standard	Metric
Part Number	AC133	M/AC133
Sensitivity (±10%)	500 mV/g	
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz
Dynamic Range	± 10 g, peak	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.7 µg/√Hz	
Spectral Noise @ 100 Hz	0.2 µg/√Hz	
Spectral Noise @ 1000 Hz	0.12 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.4 oz	92 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (Non-Integral)	2 Pin MIL-C-5015	
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



Backed by our Unconditional Lifetime Warranty

www.ctconline.com | sales@ctconline.com | 585-924-5900