

AC233 Series

Premium, Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±5%



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.

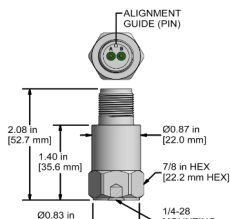
Can be used with any application that requires low and high frequency measurements.

- ▶ 500 mV/g Sensitivity, ±5% Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10,000 Hz for High Frequency Detection

AC233-1A

2 Pin Connector

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

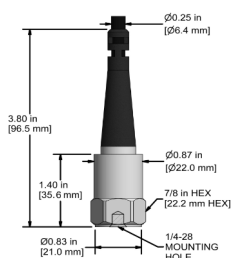


Stock Product

AC233-2A

CB103 Integral Cable

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

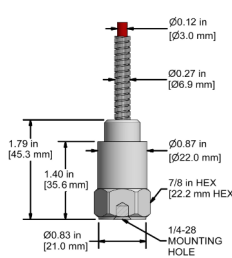


Built To Order

AC233-3A

CB206 Armored Integral Cable

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

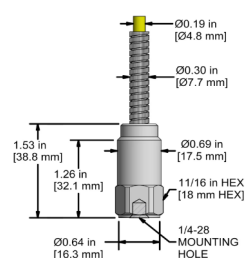


Built To Order

AC233-6A

CB611 Heavy Duty Armored Integral Cable

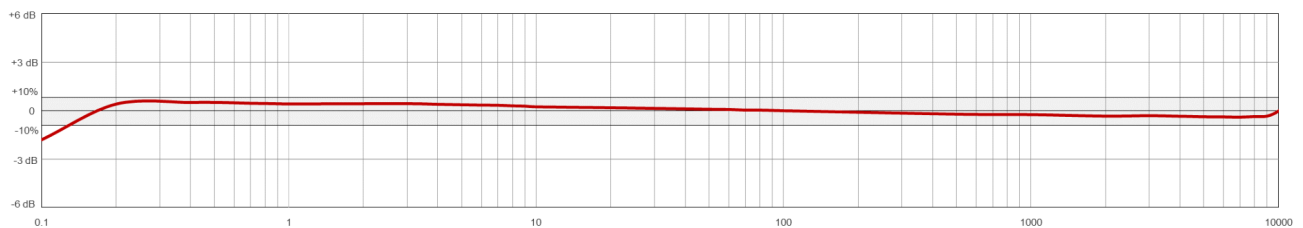
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications		Standard	Metric	Specifications		Standard	Metric
Part Number	AC233		M/ or M8/AC233	<u>Environmental</u>			
Sensitivity (±5%)		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		Sealing		Welded, Hermetic	
		*Vsource ≥ 22V, 12Vbias		Submersible Depth	200 ft.		60 m
<u>Electrical</u>				SIL Rating		SIL 2	
Settling Time		<2 Seconds		<u>Physical</u>			
Voltage Source (IEPE)		18-30 VDC		Sensing Element		PZT Ceramic	
Constant Current Excitation		2-10 mA		Sensing Structure		Shear Mode	
Spectral Noise @ 10 Hz		1.7 µg/√Hz		Weight	3.4 oz		92 grams
Spectral Noise @ 100 Hz		0.2 µg/√Hz		Case Material		316L Stainless Steel	
Spectral Noise @ 1000 Hz		0.12 µg/√Hz		Mounting Thread		1/4-28 Blind Tapped Hole	
Output Impedance		<100 ohm		Connector (Non-Integral)		2 Pin MIL-C-5015	
Bias Output Voltage		10-14 VDC		Resonant Frequency	1,080,000 CPM		18000 Hz
Case Isolation		>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.		2.7 to 6.8 Nm
				Mounting Hardware Supplied	1/4-28 Stud		M6x1 or M8x1.25 Adapter Stud
				Calibration Certificate		CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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