

AC203 Series



Low & High Frequency Accelerometer, Top Exit Connector, 100 mV/g

VIBRATION ANALYSIS HARDWARE



Product Features

Designed for Low Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also Be Used for High Frequency Detection.

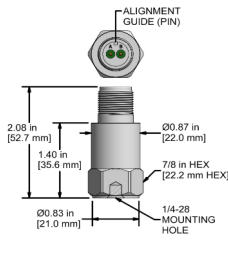
May be used with any application that requires low and high frequency measurements.

- ▶ 100 mV/g Sensitivity, $\pm 10\%$
- ▶ 0.1 Hz to 10 kHz Frequency Response (± 3 dB)
- ▶ ± 80 g peak Dynamic Range

AC203-1D

2 Pin Connector

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

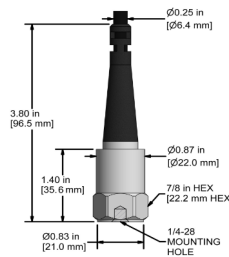


Stock Product

AC203-2D

CB103 Integral Cable

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

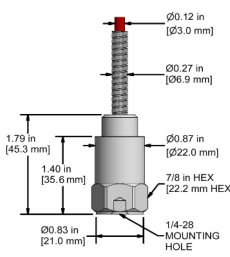


Built To Order

AC203-3D

CB206 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	AC203	M/ or M8/AC203	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection	5000 g, peak	
Frequency Response ($\pm 10\%$)	36-480,000 CPM	0,6-8000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	< 2 seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.25 ounces	92 grams
Spectral Noise @ 10 Hz	1.3 μ g/ \sqrt Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	0.2 μ g/ \sqrt Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 1000 Hz	0.1 μ g/ \sqrt Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	< 100 ohm		Resonant Frequency	1,080,000 CPM	18000 Hz
Bias Output Voltage	10-14 Vdc			2 to 5 ft	2.7 to 6.8
Case Isolation	> 10^8 ohm				