AC203 Series

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

VIBRATION ANALYSIS HARDWARE

Product Features

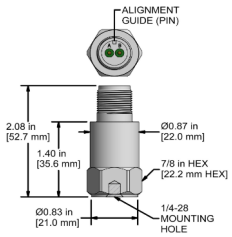
Designed for Low Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also Be Used for High Frequency Detection.

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

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

AC203-1D
2 Pin Connector

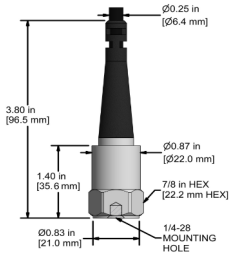
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC203-2D
CB103 Integral Cable

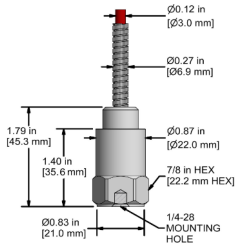
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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
Part Number	AC203	M/AC203
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz
Frequency Response (±10%)	36-480,000 CPM	0,6-8000 Hz
Dynamic Range	± 80 g, peak	
Electrical		
Settling Time	< 2 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.3 µg/√Hz	
Spectral Noise @ 100 Hz	0.2 µg/√Hz	
Spectral Noise @ 1000 Hz	0.1 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	5000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.25 ounces	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	