

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

SECTION I - VIBRATION SENSORS
Accelerometers - 100 mV/g



Actual Product Size Shown



Product Features

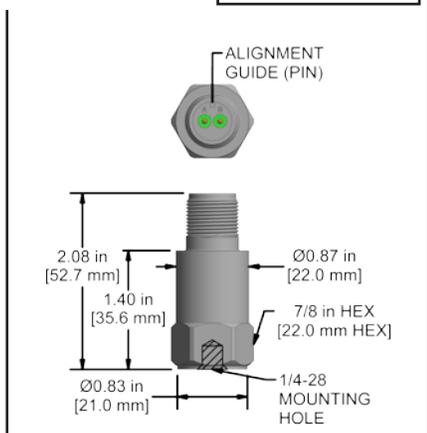
Designed for low speed Rotors, Wind Turbine Main Bearings, and Gear Box Inputs, but can also be used for High Frequency Detection.

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

- 100 mV/g Sensitivity, $\pm 10\%$ Sensitivity
- 0.1 Hz for Low Frequency Measurements
- 10,000 Hz for High Frequency Detection

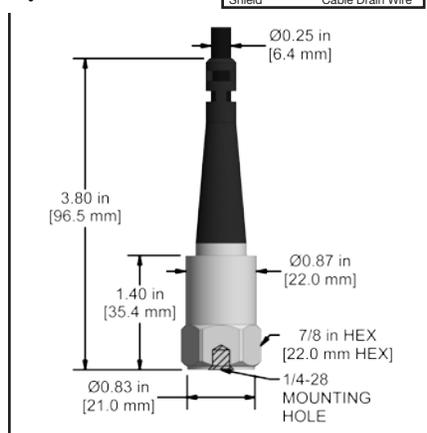
AC203-1D 2 Pin Connector

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



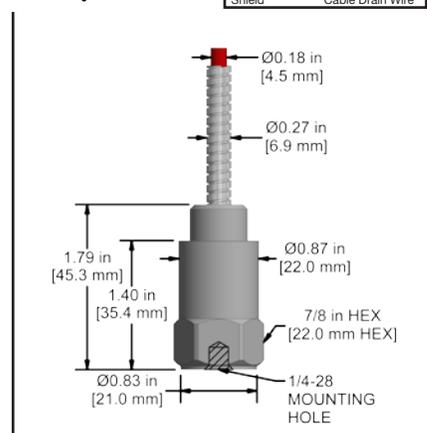
AC203-2D Integral Cable

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



AC203-3D Armored Integral Cable

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



Specifications	Standard	Metric
Part Number	AC203	M/AC203
Vibration		
Sensitivity ($\pm 10\%$)		100 mV/g
Frequency Response ($\pm 3dB$)	6-600,000 CPM	0,1-10000 Hz
Frequency Response ($\pm 10\%$)	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 $\mu g/\sqrt{Hz}$
Spectral Noise @ 100 Hz		0.2 $\mu g/\sqrt{Hz}$
Spectral Noise @ 1000 Hz		0.1 $\mu g/\sqrt{Hz}$
Output Impedance		<100 ohm
Bias Output Voltage		10-14 VDC
Case Isolation		>10 ⁹ 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
Physical		
Sensing Element		PZT Ceramic
Sensing Structure		Shear Mode
Weight	3.25 oz	92 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		2 Pin MIL-C-5015
Resonant Frequency	1,020,000 CPM	17000 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

Ordering Information

Standard	AC203-1D (1/4-28 Stud)	AC203-2D / (1/4-28 Stud)	AC203-3D / (1/4-28 Stud)
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC203-1D (M6x1 Adapter Stud)	M/AC203-2D / (M6x1 Adapter Stud)	M/AC203-3D / (M6x1 Adapter Stud)
		(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

Cable Terminations: E, EX F, FX L Z

Backed by our Unconditional Lifetime Warranty

