

AC203 Series

Low and High Frequency Accelerometer, Top Exit Connector, 100 mV/g, $\pm 10\%$



Product Features

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

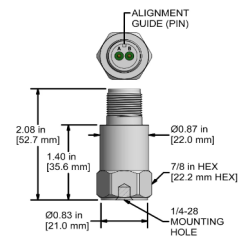
May be Used With any Application That Requires Low and High Frequency Measurements

- ▶ 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

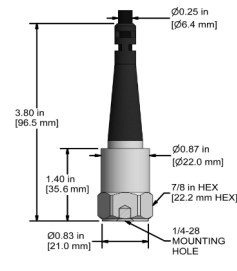


Stock Product

AC203-2D & -7A

2D = CB103 Integral Cable
7A = CB124 Integral Cable

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

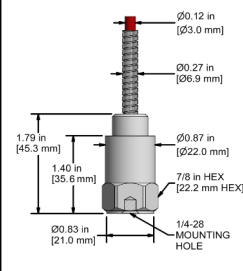


Built To Order

AC203-3D

CB206 Armored Integral Cable

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

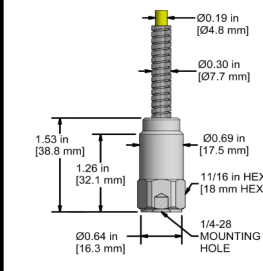


Built To Order

AC203-6D

CB611 Heavy Duty Armored Integral Cable

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

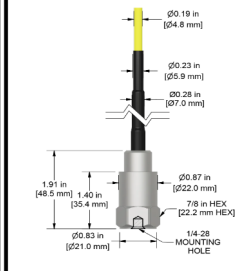


Built To Order

AC203-6N

CB111 FEP Jacketed 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	
Dynamic Range	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	$\leq 5\%$		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	2 seconds		Physical		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	1.3 μ g/ $\sqrt{\text{Hz}}$		Weight	3.25 ounces	92 grams
Spectral Noise @ 100 Hz	0.2 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.1 μ g/ $\sqrt{\text{Hz}}$		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

