

AC211 Series

Premium Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, $\pm 5\%$



VIBRATION ANALYSIS HARDWARE



Product Features

High-Performance, Side-Exit Sensor for Demanding Applications

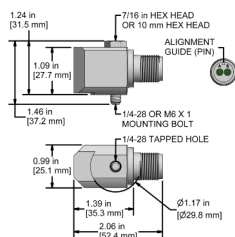
High Dynamic Range with Excellent Frequency Response

- ▶ ± 80 g, Dynamic Range
- ▶ Excellent Bias Stability Throughout Operating Temperature Range
- ▶ 100 mV/g $\pm 5\%$

AC211-1D

2 Pin Connector

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

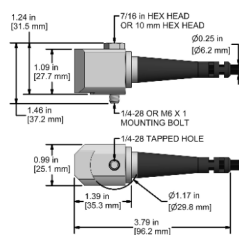


Stock Product

AC211-2D & -7A

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

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

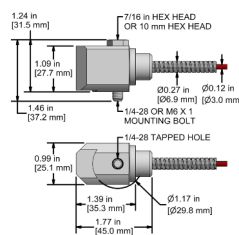


Built To Order

AC211-3D

CB206 Armored Integral Cable

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

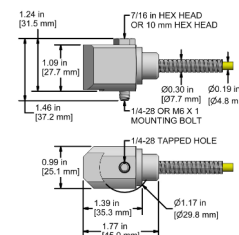


Built To Order

AC211-6D

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	AC211	M/AC211	Environmental		
Sensitivity ($\pm 5\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	60-210,000 CPM	1.0-3500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Sealing	Welded, Hermetic	
Transverse Sensitivity	$\leq 5\%$		Submersible Depth	200 ft.	60 m
Electrical			SIL Rating	SIL 2	
Settling Time	<2.0 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	8 μ g/ $\sqrt{\text{Hz}}$		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	4 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response

