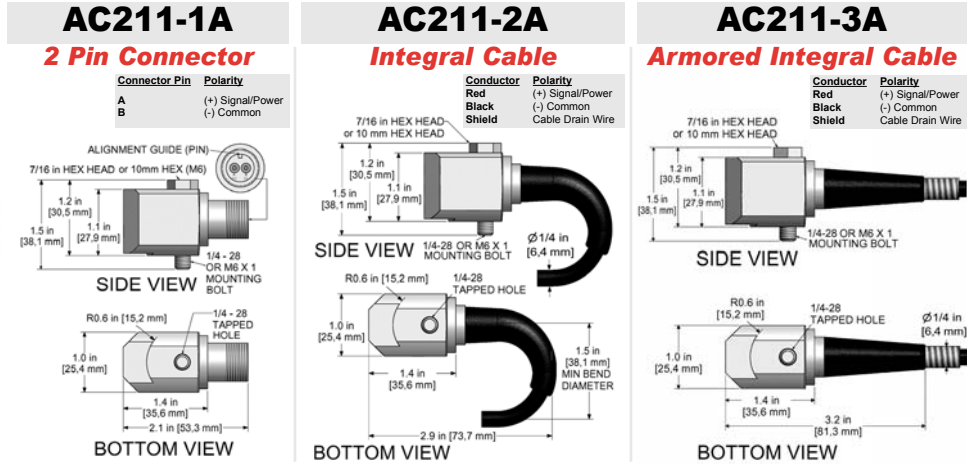


AC211 Series

Premium Series Accelerometer, Side Exit Connector / Cable, 100 mV/g



API 670
CE



<p>Part Numbers & Ordering Information:</p> <p>When Ordering Metric, add "M" prefix. (Example: M/AC211-2A/010-Z)</p>	<p>AC211-1A 80 g range accelerometer, 100 mV/g, ± 5%, 2 pin side connector</p>	<p>AC211-2A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC211-2A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC211-2A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC211-2A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC211-2A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC211-2A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC211-2A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC211-2A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC211-2A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC211-2A/100-F 100 ft. (30 m), BNC plug connector</p>	<p>AC211-3A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC211-3A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC211-3A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC211-3A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC211-3A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC211-3A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC211-3A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC211-3A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC211-3A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC211-3A/100-F 100 ft. (30 m), BNC plug connector</p>
	* Custom Lengths Available Upon Request		

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity ±5%	100 mV/g	100 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response			Maximum Shock Protection	5,000 g, peak	5000 g, peak
±3 dB	30-600,000 CPM	0.5-10000 Hz	Electromagnetic Sensitivity	CE	CE
±10%	60-420,000 CPM	1,0-7000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
±5%	120-180,000 CPM	2,0-3000 Hz	Submersible Depth (AC211-2A)	500 ft.	152 m
Dynamic Range	±80 g, peak	±80 g, peak	Physical		
Electrical			Sensing Element	PZT Ceramic	PZT Ceramic
Settling Time (Turn on Time)			Sensing Structure	Shear Mode	Shear Mode
@ Room Temp (68°F/20°C)	<2.5 Seconds	<2,5 Seconds	Weight	5.1 oz.	145 grams
Power Requirement			Case Material	316L Stainless Steel	316L Stainless Steel
Voltage Source	18-30 VDC	18-30 VDC	Mounting Hole	1/4-28	1/4-28
Constant Current Excitation	2-10 mA	2-10 mA	Connector (AC211-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Electrical Noise (Typical)			Integral Cable (AC211-2A)	CB103	CB103
Broadband 2.5 Hz to 25 kHz	113 σ _g , rms	113 σ _g , rms	Armored Cable (AC211-3A)	CB206, Armor Jacket	CB206, Armor Jacket
Spectral 10 Hz	8 σ _g /√Hz	8 σ _g /√Hz	Mechanical		
100 Hz	0.82 σ _g /√Hz	0.82 σ _g /√Hz	Resonant Frequency	1,260,000 CPM	21000 Hz
1000 Hz	0.3 σ _g /√Hz	0.3 σ _g /√Hz	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Output Impedance, Max	<100 ohm	<100 ohm	Supplied Accessories		
Bias Output Voltage	10-14 VDC	10-14 VDC	Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Calibration Certificate	CA10	CA10

Common Applications

Industries Served

- Automotive
- Petrochemical
- Steel
- Manufacturing
- Pharmaceutical
- Wastewater Treatment
- Military
- Power
- Mining
- Pulp and Paper

Typical Applications

- Air Compressors
- Dryer Sections <250° F (121° C)
- Motors
- Pumps, Underwater
- Air Handlers
- Fans
- Press Sections
- Roll and Process Equipment
- Conveyors
- Fourdriniers
- Presses and Stamping
- Spindles
- Cooling Towers
- Gear Boxes
- Pumps

Measurement Types

- Permanent Mount
- Portable

For optional accessories, please see the *Sensor Accessory Selection Chart*.



VIBRATION ANALYSIS HARDWARE