

AC220 Series

Premium Series, Small Accelerometer, High Frequency, Top Exit Cable, 10 mV/g

Use CTC mini MIL J2 Series Connectors with this sensor



<p>Part Numbers & Ordering Information:</p> <p>When Ordering Metric, add "M" prefix. (Example: M/AC220-2A/010-Z)</p>	<p>AC220-1A Premium small accelerometer, high frequency, 10 mV/g, 2 pin top connector</p>	<p>AC220-2A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC220-2A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC220-2A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC220-2A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC220-2A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC220-2A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC220-2A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC220-2A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC220-2A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC220-2A/100-F 100 ft. (30 m), BNC plug connector</p>	<p>AC220-3A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC220-3A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC220-3A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC220-3A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC220-3A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC220-3A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC220-3A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC220-3A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC220-3A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC220-3A/100-F 100 ft. (30 m), BNC plug connector</p>
	<p>Requires J2A or J2C Connector/Cable</p>	<p>* Custom Lengths Available Upon Request</p>	

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity ±5%	10 mV/g	10 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response			Vibration Limit	±50 g, peak	±50 g, peak
±3 dB	90-1,500,000 CPM	1.5-25000 Hz	Maximum Shock Protection	5,000 g, peak	5000 g, peak
±10%	180-420,000 CPM	3.0-7000 Hz	Electromagnetic Sensitivity	CE	CE
±5%	120-180,000 CPM	2.0-3000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
Dynamic Range	±500 g, peak	±500 g, peak	Submersible Depth	500 ft	152 m
Electrical			Physical		
Settling Time (Turn on Time)			Sensing Element	PZT Ceramic	PZT Ceramic
@ Room Temp (68°F/20°C)	<3 Seconds	<3 Seconds	Sensing Structure	Shear Mode	Shear Mode
Power Requirement			Weight	0.7 oz.	20 grams
Voltage Source	18-30 VDC	18-30 VDC	Case Material	316L Stainless Steel	316L Stainless Steel
Constant Current Excitation	2-10 mA	2-10 mA	Mounting Hole	1/4-28	1/4-28
Electrical Noise (Typical)			Connector (AC220-1A)	2 Pin Mini-MIL	2 Pin Mini-MIL
Broadband 2.5 Hz to 25 kHz	3000 σg, rms	3000 σg, rms	Integral Cable (AC220-2A)	CB110	CB110
Spectral 10 Hz	200 σg/√Hz	200 σg/√Hz	Armored Cable (AC220-3A)	CB206, Armor Jacket	CB206, Armor Jacket
100 Hz	19 σg/√Hz	19 σg/√Hz	Mechanical		
1000 Hz	5 σg/√Hz	5 σg/√Hz	Resonant Frequency	2,460,000 CPM	41000 Hz
Output Impedance, Max	<100 ohm	<100 ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage	7-14 VDC	7-14 VDC	Supplied Accessories		
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud

Common Applications

Industries Served

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

Typical Applications

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

For optional accessories, please see the [Sensor Accessory Selection Chart](#).

