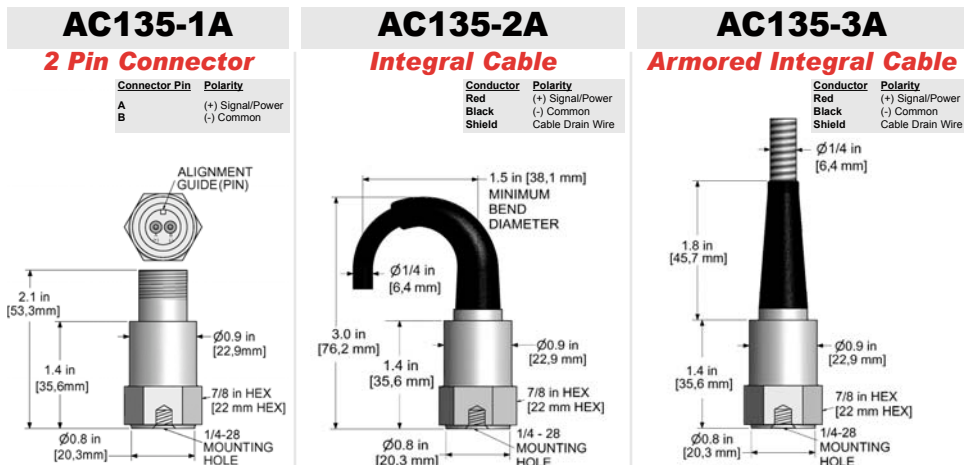


AC135 Series

Low Frequency Accelerometer, Top Exit Connector / Cable, 500 mV/g



<p>Part Numbers & Ordering Information:</p> <p>When Ordering Metric, add "M" prefix. (Example: M/AC135-2A/010-Z)</p>	<p>AC135-1A Low frequency accelerometer, 500 mV/g, 2 pin top connector</p>	<table border="1"> <tr><td>AC135-2A/010-Z</td><td>10 ft. (3 m), blunt cut end</td></tr> <tr><td>AC135-2A/020-Z</td><td>20 ft. (6 m), blunt cut end</td></tr> <tr><td>AC135-2A/030-Z</td><td>30 ft. (9 m), blunt cut end</td></tr> <tr><td>AC135-2A/050-Z</td><td>50 ft. (15 m), blunt cut end</td></tr> <tr><td>AC135-2A/100-Z</td><td>100 ft. (30 m), blunt cut end</td></tr> <tr><td>AC135-2A/010-F</td><td>10 ft. (3 m), BNC plug connector</td></tr> <tr><td>AC135-2A/020-F</td><td>20 ft. (6 m), BNC plug connector</td></tr> <tr><td>AC135-2A/030-F</td><td>30 ft. (9 m), BNC plug connector</td></tr> <tr><td>AC135-2A/050-F</td><td>50 ft. (15 m), BNC plug connector</td></tr> <tr><td>AC135-2A/100-F</td><td>100 ft. (30 m), BNC plug connector</td></tr> </table>	AC135-2A/010-Z	10 ft. (3 m), blunt cut end	AC135-2A/020-Z	20 ft. (6 m), blunt cut end	AC135-2A/030-Z	30 ft. (9 m), blunt cut end	AC135-2A/050-Z	50 ft. (15 m), blunt cut end	AC135-2A/100-Z	100 ft. (30 m), blunt cut end	AC135-2A/010-F	10 ft. (3 m), BNC plug connector	AC135-2A/020-F	20 ft. (6 m), BNC plug connector	AC135-2A/030-F	30 ft. (9 m), BNC plug connector	AC135-2A/050-F	50 ft. (15 m), BNC plug connector	AC135-2A/100-F	100 ft. (30 m), BNC plug connector	<table border="1"> <tr><td>AC135-3A/010-Z</td><td>10 ft. (3 m), blunt cut end</td></tr> <tr><td>AC135-3A/020-Z</td><td>20 ft. (6 m), blunt cut end</td></tr> <tr><td>AC135-3A/030-Z</td><td>30 ft. (9 m), blunt cut end</td></tr> <tr><td>AC135-3A/050-Z</td><td>50 ft. (15 m), blunt cut end</td></tr> <tr><td>AC135-3A/100-Z</td><td>100 ft. (30 m), blunt cut end</td></tr> <tr><td>AC135-3A/010-F</td><td>10 ft. (3 m), BNC plug connector</td></tr> <tr><td>AC135-3A/020-F</td><td>20 ft. (6 m), BNC plug connector</td></tr> <tr><td>AC135-3A/030-F</td><td>30 ft. (9 m), BNC plug connector</td></tr> <tr><td>AC135-3A/050-F</td><td>50 ft. (15 m), BNC plug connector</td></tr> <tr><td>AC135-3A/100-F</td><td>100 ft. (30 m), BNC plug connector</td></tr> </table>	AC135-3A/010-Z	10 ft. (3 m), blunt cut end	AC135-3A/020-Z	20 ft. (6 m), blunt cut end	AC135-3A/030-Z	30 ft. (9 m), blunt cut end	AC135-3A/050-Z	50 ft. (15 m), blunt cut end	AC135-3A/100-Z	100 ft. (30 m), blunt cut end	AC135-3A/010-F	10 ft. (3 m), BNC plug connector	AC135-3A/020-F	20 ft. (6 m), BNC plug connector	AC135-3A/030-F	30 ft. (9 m), BNC plug connector	AC135-3A/050-F	50 ft. (15 m), BNC plug connector	AC135-3A/100-F	100 ft. (30 m), BNC plug connector
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* Custom Lengths Available Upon Request																																											

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity ±10%	500 mV/g	500 mV/g	Temperature Range	-60 to 250° F	-50 to 121° C
Frequency Response			Electromagnetic Sensitivity	CE	CE
±3 dB	12-180,000 CPM	0.2-3000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
±10%	36-90,000 CPM	0.6-1500 Hz	Submersible Depth (AC135-2A)	500 ft.	152 m
Dynamic Range	±10 g, peak	±10 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)	5 Seconds	5 Seconds	Weight	3.3 oz.	95 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 (AC135-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Electrical Noise (Typical)			Integral Cable (AC135-2A)	CB103	CB103
Broadband 2.5 Hz to 25 kHz	20 σg, rms	20 σg, rms	Armored Cable (AC135-3A)	CB206, Armor Jacket	CB206, Armor Jacket
Spectral 10 Hz	1.7 σg/√Hz	1.7 σg/√Hz	Mechanical		
100 Hz	0.2 σg/√Hz	0.2 σg/√Hz	Resonant Frequency	720,000 CPM	12000 Hz
1000 Hz	0.12 σg/√Hz	0.12 σg/√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 Stud	M6x1 Adapter Stud
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

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

Measurement Types

- Permanent Mount
- Portable

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



VIBRATION ANALYSIS HARDWARE