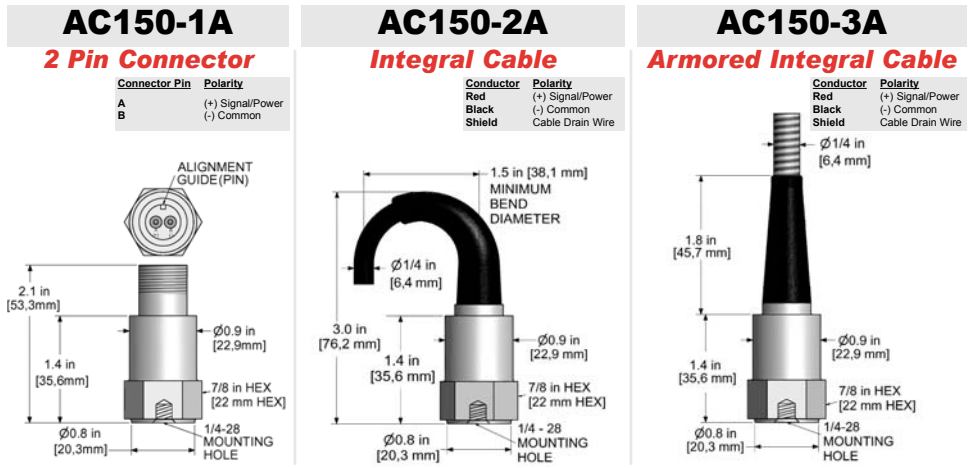


# AC150 Series

## Low Cost Accelerometer, Top Exit Connector / Cable, 100 mV/g



<p><b>Part Numbers &amp; Ordering Information:</b></p> <p>When Ordering Metric, add "M" prefix. (Example: M/AC150-2A/010-Z)</p>	<p><b>AC150-1A</b> Low cost accelerometer, 100 mV/g, 2 pin top connector</p>	<table border="1"> <tr><td>AC150-2A/010-Z</td><td>10 ft. (3 m), blunt cut end</td></tr> <tr><td>AC150-2A/020-Z</td><td>20 ft. (6 m), blunt cut end</td></tr> <tr><td>AC150-2A/030-Z</td><td>30 ft. (9 m), blunt cut end</td></tr> <tr><td>AC150-2A/050-Z</td><td>50 ft. (15 m), blunt cut end</td></tr> <tr><td>AC150-2A/100-Z</td><td>100 ft. (30 m), blunt cut end</td></tr> <tr><td>AC150-2A/010-F</td><td>10 ft. (3 m), BNC plug connector</td></tr> <tr><td>AC150-2A/020-F</td><td>20 ft. (6 m), BNC plug connector</td></tr> <tr><td>AC150-2A/030-F</td><td>30 ft. (9 m), BNC plug connector</td></tr> <tr><td>AC150-2A/050-F</td><td>50 ft. (15 m), BNC plug connector</td></tr> <tr><td>AC150-2A/100-F</td><td>100 ft. (30 m), BNC plug connector</td></tr> </table>	AC150-2A/010-Z	10 ft. (3 m), blunt cut end	AC150-2A/020-Z	20 ft. (6 m), blunt cut end	AC150-2A/030-Z	30 ft. (9 m), blunt cut end	AC150-2A/050-Z	50 ft. (15 m), blunt cut end	AC150-2A/100-Z	100 ft. (30 m), blunt cut end	AC150-2A/010-F	10 ft. (3 m), BNC plug connector	AC150-2A/020-F	20 ft. (6 m), BNC plug connector	AC150-2A/030-F	30 ft. (9 m), BNC plug connector	AC150-2A/050-F	50 ft. (15 m), BNC plug connector	AC150-2A/100-F	100 ft. (30 m), BNC plug connector	<table border="1"> <tr><td>AC150-3A/010-Z</td><td>10 ft. (3 m), blunt cut end</td></tr> <tr><td>AC150-3A/020-Z</td><td>20 ft. (6 m), blunt cut end</td></tr> <tr><td>AC150-3A/030-Z</td><td>30 ft. (9 m), blunt cut end</td></tr> <tr><td>AC150-3A/050-Z</td><td>50 ft. (15 m), blunt cut end</td></tr> <tr><td>AC150-3A/100-Z</td><td>100 ft. (30 m), blunt cut end</td></tr> <tr><td>AC150-3A/010-F</td><td>10 ft. (3 m), BNC plug connector</td></tr> <tr><td>AC150-3A/020-F</td><td>20 ft. (6 m), BNC plug connector</td></tr> <tr><td>AC150-3A/030-F</td><td>30 ft. (9 m), BNC plug connector</td></tr> <tr><td>AC150-3A/050-F</td><td>50 ft. (15 m), BNC plug connector</td></tr> <tr><td>AC150-3A/100-F</td><td>100 ft. (30 m), BNC plug connector</td></tr> </table>	AC150-3A/010-Z	10 ft. (3 m), blunt cut end	AC150-3A/020-Z	20 ft. (6 m), blunt cut end	AC150-3A/030-Z	30 ft. (9 m), blunt cut end	AC150-3A/050-Z	50 ft. (15 m), blunt cut end	AC150-3A/100-Z	100 ft. (30 m), blunt cut end	AC150-3A/010-F	10 ft. (3 m), BNC plug connector	AC150-3A/020-F	20 ft. (6 m), BNC plug connector	AC150-3A/030-F	30 ft. (9 m), BNC plug connector	AC150-3A/050-F	50 ft. (15 m), BNC plug connector	AC150-3A/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	±15%	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
Dynamic Range	±3 dB	±50 g, peak	Electromagnetic Sensitivity	CE	CE
	60-600,000 CPM	1,0-10000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
			Submersible Depth (AC150-2A)	500 ft.	152 m
<b>Electrical</b>			<b>Physical</b>		
Settling Time (Turn on Time)			Sensing Element	PZT Ceramic	PZT Ceramic
@ Room Temp (68°F/20°C)	<2.5 Seconds	<2.5 Seconds	Sensing Structure	Shear Mode	Shear Mode
Power Requirement			Weight	3.2 oz.	90 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 (AC150-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Broadband 2.5 Hz to 25 kHz	200 σg, rms	200 σg, rms	Integral Cable (AC150-2A)	CB103	CB103
Spectral 10 Hz	14 σg/√Hz	14 σg/√Hz	Armored Cable (AC150-3A)	CB206, Armor Jacket	CB206, Armor Jacket
100 Hz	2.3 σg/√Hz	2.3 σg/√Hz			
1000 Hz	2 σg/√Hz	2 σg/√Hz	<b>Mechanical</b>		
Output Impedance, Max	<100 ohm	<100 ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage	10-14 VDC	10-14 VDC	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Electrical Case Isolation	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm	<b>Supplied Accessories</b>		
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	CA10

### Common Applications

#### Industries Served

- |  |   |   |  |
|--|---|---|--|
| <ul style="list-style-type: none"> <li>Automotive</li> <li>Petrochemical</li> <li>Steel</li> </ul> | <ul style="list-style-type: none"> <li>Manufacturing</li> <li>Pharmaceutical</li> <li>Wastewater Treatment</li> </ul> | <ul style="list-style-type: none"> <li>Military</li> <li>Power</li> </ul> | <ul style="list-style-type: none"> <li>Mining</li> <li>Pulp and Paper</li> </ul> |
|--|---|---|--|

#### Typical Applications

- |  |  |   |   |
|--|--|---|---|
| <ul style="list-style-type: none"> <li>Air Compressors</li> <li>Dryer Sections &lt;250° F (121° C)</li> <li>Motors</li> <li>Pumps, Underwater</li> </ul> | <ul style="list-style-type: none"> <li>Air Handlers</li> <li>Fans</li> <li>Press Sections</li> <li>Roll and Process Equipment</li> </ul> | <ul style="list-style-type: none"> <li>Conveyors</li> <li>Fourdriniers</li> <li>Presses and Stamping</li> <li>Spindles</li> </ul> | <ul style="list-style-type: none"> <li>Cooling Towers</li> <li>Gear Boxes</li> <li>Pumps</li> </ul> |
|--|--|---|---|

#### Measurement Types

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>Permanent Mount</li> </ul> | <ul style="list-style-type: none"> <li>Portable</li> </ul> |
|---|--|

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

