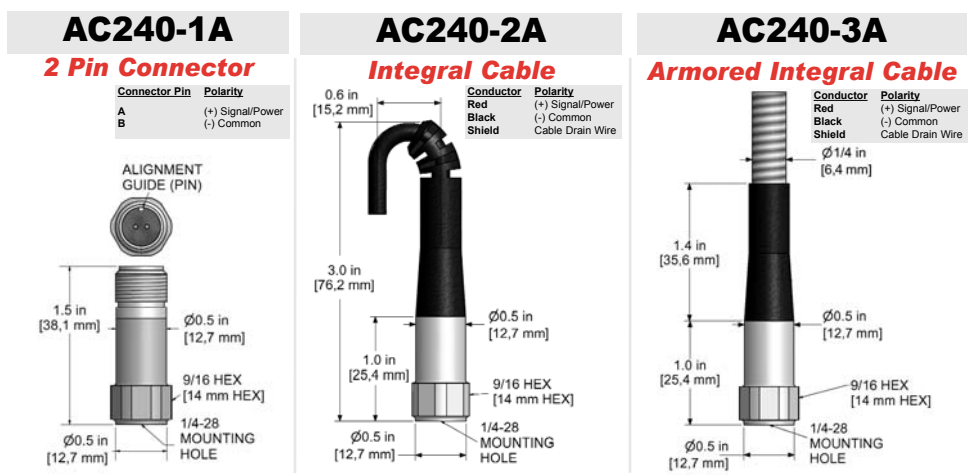


AC240 Series

Premium Series, Small Accelerometer, High Frequency, Top Exit Cable, 100 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/AC240-2A/010-Z)</p>	<p>AC240-1A Premium small accelerometer, high frequency, 100 mV/g, 2 pin top connector</p> <p>Requires J2A or J2C Connector/Cable</p>	<table border="1"> <thead> <tr> <th>Part Number</th> <th>Length</th> <th>End Style</th> </tr> </thead> <tbody> <tr> <td>AC240-2A/010-Z</td> <td>10 ft. (3 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-2A/020-Z</td> <td>20 ft. (6 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-2A/030-Z</td> <td>30 ft. (9 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-2A/050-Z</td> <td>50 ft. (15 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-2A/100-Z</td> <td>100 ft. (30 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-2A/010-F</td> <td>10 ft. (3 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-2A/020-F</td> <td>20 ft. (6 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-2A/030-F</td> <td>30 ft. (9 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-2A/050-F</td> <td>50 ft. (15 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-2A/100-F</td> <td>100 ft. (30 m)</td> <td>BNC plug connector</td> </tr> </tbody> </table>	Part Number	Length	End Style	AC240-2A/010-Z	10 ft. (3 m)	blunt cut end	AC240-2A/020-Z	20 ft. (6 m)	blunt cut end	AC240-2A/030-Z	30 ft. (9 m)	blunt cut end	AC240-2A/050-Z	50 ft. (15 m)	blunt cut end	AC240-2A/100-Z	100 ft. (30 m)	blunt cut end	AC240-2A/010-F	10 ft. (3 m)	BNC plug connector	AC240-2A/020-F	20 ft. (6 m)	BNC plug connector	AC240-2A/030-F	30 ft. (9 m)	BNC plug connector	AC240-2A/050-F	50 ft. (15 m)	BNC plug connector	AC240-2A/100-F	100 ft. (30 m)	BNC plug connector	<table border="1"> <thead> <tr> <th>Part Number</th> <th>Length</th> <th>End Style</th> </tr> </thead> <tbody> <tr> <td>AC240-3A/010-Z</td> <td>10 ft. (3 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-3A/020-Z</td> <td>20 ft. (6 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-3A/030-Z</td> <td>30 ft. (9 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-3A/050-Z</td> <td>50 ft. (15 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-3A/100-Z</td> <td>100 ft. (30 m)</td> <td>blunt cut end</td> </tr> <tr> <td>AC240-3A/010-F</td> <td>10 ft. (3 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-3A/020-F</td> <td>20 ft. (6 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-3A/030-F</td> <td>30 ft. (9 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-3A/050-F</td> <td>50 ft. (15 m)</td> <td>BNC plug connector</td> </tr> <tr> <td>AC240-3A/100-F</td> <td>100 ft. (30 m)</td> <td>BNC plug connector</td> </tr> </tbody> </table>	Part Number	Length	End Style	AC240-3A/010-Z	10 ft. (3 m)	blunt cut end	AC240-3A/020-Z	20 ft. (6 m)	blunt cut end	AC240-3A/030-Z	30 ft. (9 m)	blunt cut end	AC240-3A/050-Z	50 ft. (15 m)	blunt cut end	AC240-3A/100-Z	100 ft. (30 m)	blunt cut end	AC240-3A/010-F	10 ft. (3 m)	BNC plug connector	AC240-3A/020-F	20 ft. (6 m)	BNC plug connector	AC240-3A/030-F	30 ft. (9 m)	BNC plug connector	AC240-3A/050-F	50 ft. (15 m)	BNC plug connector	AC240-3A/100-F	100 ft. (30 m)	BNC plug connector
	Part Number	Length	End Style																																																																		
AC240-2A/010-Z	10 ft. (3 m)	blunt cut end																																																																			
AC240-2A/020-Z	20 ft. (6 m)	blunt cut end																																																																			
AC240-2A/030-Z	30 ft. (9 m)	blunt cut end																																																																			
AC240-2A/050-Z	50 ft. (15 m)	blunt cut end																																																																			
AC240-2A/100-Z	100 ft. (30 m)	blunt cut end																																																																			
AC240-2A/010-F	10 ft. (3 m)	BNC plug connector																																																																			
AC240-2A/020-F	20 ft. (6 m)	BNC plug connector																																																																			
AC240-2A/030-F	30 ft. (9 m)	BNC plug connector																																																																			
AC240-2A/050-F	50 ft. (15 m)	BNC plug connector																																																																			
AC240-2A/100-F	100 ft. (30 m)	BNC plug connector																																																																			
Part Number	Length	End Style																																																																			
AC240-3A/010-Z	10 ft. (3 m)	blunt cut end																																																																			
AC240-3A/020-Z	20 ft. (6 m)	blunt cut end																																																																			
AC240-3A/030-Z	30 ft. (9 m)	blunt cut end																																																																			
AC240-3A/050-Z	50 ft. (15 m)	blunt cut end																																																																			
AC240-3A/100-Z	100 ft. (30 m)	blunt cut end																																																																			
AC240-3A/010-F	10 ft. (3 m)	BNC plug connector																																																																			
AC240-3A/020-F	20 ft. (6 m)	BNC plug connector																																																																			
AC240-3A/030-F	30 ft. (9 m)	BNC plug connector																																																																			
AC240-3A/050-F	50 ft. (15 m)	BNC plug connector																																																																			
AC240-3A/100-F	100 ft. (30 m)	BNC plug connector																																																																			

* Custom Lengths Available Upon Request

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity	±5%	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	36-1,500,000 CPM	0.6-25000 Hz	Electromagnetic Sensitivity	CE	CE
±10%	60-420,000 CPM	1.0-7000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
±5%	600-150,000 CPM	10-2500 Hz	Submersible Depth	500 ft	152 m
Dynamic Range	±50 g, peak	±50 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	0.7 oz.	20 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 (AC240-1A)	2 Pin Mini-MIL	2 Pin Mini-MIL
Electrical Noise (Typical)			Integral Cable (AC240-2A)	CB110	CB110
Broadband 2.5 Hz to 25 kHz	325 σg, rms	325 σg, rms	Armored Cable (AC240-3A)	CB206, Armor Jacket	CB206, Armor Jacket
Spectral 10 Hz	30 σg/√Hz	30 σg/√Hz	Mechanical		
100 Hz	4 σg/√Hz	4 σg/√Hz	Resonant Frequency	2,040,000 CPM	34000 Hz
1000 Hz	2 σg/√Hz	2 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	7-14 VDC	7-14 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
- Pharmaceutical
- Wastewater Treatment
- Manufacturing
- Power
- Military
- Pulp and Paper
- Petrochemical
- Steel

Typical Applications

- Air Handlers
- Motors
- Spindles
- Dryer Sections <250° F (121° C)
- Press Sections
- Fans
- Pumps
- Gear Boxes
- Roll and Process Equipment

Measurement Types

- Permanent
- Portable

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

