

AC224 Series

High Frequency mini-MIL Accelerometer, Side Exit Connector/Cable, 10 mV/g



VIBRATION ANALYSIS HARDWARE



Product Features

Very High 500g Side Exit Accelerometer for High Amplitude Applications

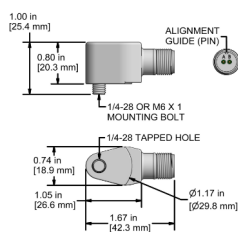
Helps to Detect Gearbox Defects and Other High Frequency Faults

- ▶ 1,0 - 15000 Hz (60-900,000 CPM) Frequency Response
- ▶ 10 mV/g $\pm 5\%$ Sensitivity
- ▶ 32 kHz Resonant Frequency

AC224-1D

2 Pin Mini Mil Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common

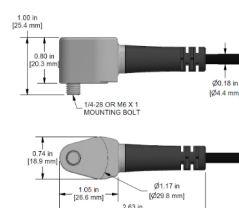


Stock Product

AC224-2D

CB110 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

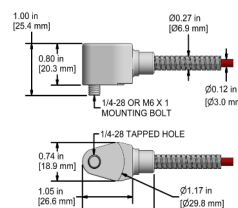


Built To Order

AC224-3D

CB206 Armored Integral Cable

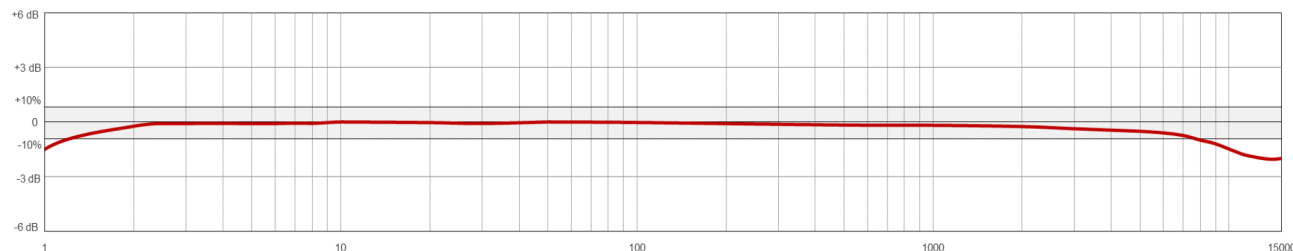
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC224	M/AC224	Environmental		
Sensitivity ($\pm 5\%$)		10 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (± 3 dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	90-420,000 CPM	1,5-7000 Hz	Electromagnetic Sensitivity		CE
Frequency Response ($\pm 5\%$)	180-180,000 CPM	3,0-3000 Hz	Sealing		Welded, Hermetic
Dynamic Range		± 500 g, peak	Submersible Depth	200 ft.	60 m
Electrical			Physical		
Settling Time		<2 seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	2.1 oz	60 grams
Spectral Noise @ 10 Hz		100 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		19 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting		1/4-28
Spectral Noise @ 1000 Hz		5 $\mu\text{g}/\sqrt{\text{Hz}}$	Connector (Non-Integral)		2 Pin mini-MIL
Output Impedance		<100 ohm	Resonant Frequency	1,920,000 CPM	32000 Hz
Bias Output Voltage		10-14 VDC	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation		>10 ⁸ ohm	Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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