

AC246 Series

Premium, Miniature Industrial, Magnet Mount Accelerometer, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Premium, Route-Based Sensor

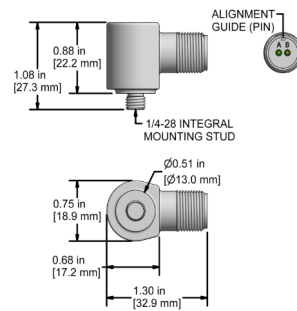
High Performance at a Reasonable Price

- ▶ Specifically Designed to Use with MH128-1A Magnet
- ▶ Comfortable Ergonomic Design Makes Data Collection Easy

AC246-1D

2 Pin mini-MIL Connector

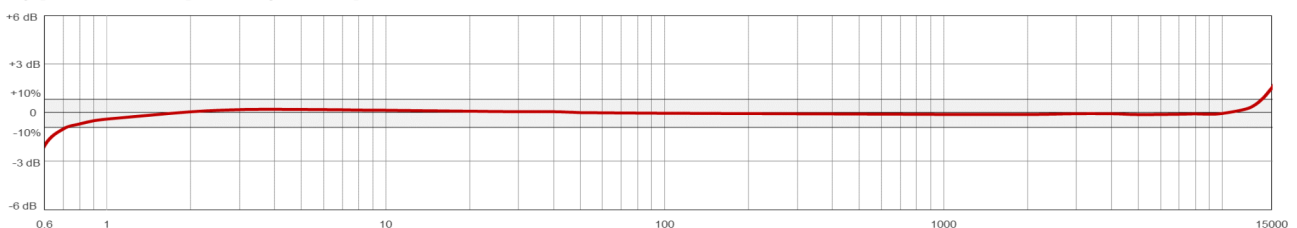
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±5%)		100 mV/g	<u>Environmental</u>		
Frequency Response (±3dB)	36-900,000 CPM	0.6-15000 Hz	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	60-420,000 CPM	1.0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±5%)	120-420,000 CPM	2.0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
<u>Electrical</u>			SIL Rating		SIL 2
Settling Time	<2.5 seconds		<u>Physical</u>		
Voltage Source (IEPE)	18-30 VDC		Sensing Element		PZT Ceramic
Constant Current Excitation	2-10 mA		Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz	30 µg/√Hz		Weight	1.6 oz	45.3 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting Thread		1/4-28 Integral Stud
Output Impedance	<100 ohm		Connector (Non-Integral)		2 Pin mini-MIL
Bias Output Voltage	10-14 VDC		Resonant Frequency	2,040,000 CPM	34000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Integral Stud	
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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