

# 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

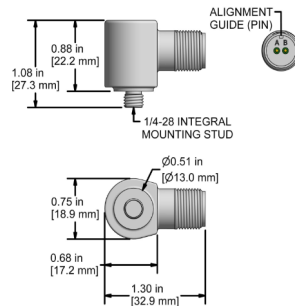
High Performance at a Reasonable Price

- ▶ Specifically Designed for 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



Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±5%)	100 mV/g		<b>Environmental</b>		
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%)	120-300,000 CPM	0,2-5,000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
<b>Electrical</b>			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		<b>Physical</b>		
Voltage Source	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 <sup>8</sup> 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

