

AC216 Series

Premium, Magnet Mount Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Premium, Route-Based Sensor

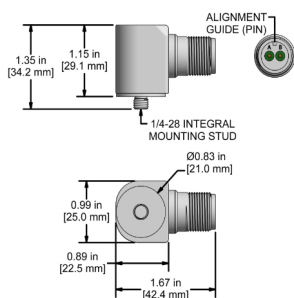
High Performance at a Reasonable Price

- ▶ Specifically Designed for Use with MH214-3A Magnet
- ▶ Comfortable Ergonomic Design Makes Data Collection Easy
- ▶ ±80 g, Dynamic Range, ±5% Sensitivity

AC216-1A

2 Pin Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±5%)	100 mV/g		Environmental		
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±10%)	60-270,000 CPM	1.0-4500 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		Sealing	Welded, Hermetic	
Transverse Sensitivity	*V _{source} ≥ 22V, 12Vbias		SIL Rating	SIL 2	
Electrical			Physical		
Settling Time	<2.0 seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	4.4 oz	124 grams
Spectral Noise @ 10 Hz	8 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 µg/√Hz		Mounting Thread	1/4-28 Integral Stud	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,560,000 CPM	26000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Integral Stud	
			Calibration Certificate	CA10	

Typical Frequency Response

