

AC116 Series

Magnet Mount Accelerometer, Side Exit 2 Pin Connector, 1/4-28 Integral Mounting Stud, 100 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Standard, Route-Based Sensor

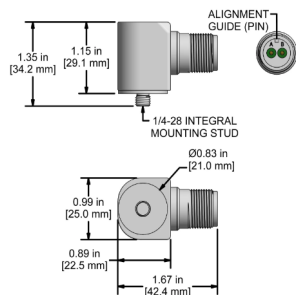
Excellent Sensor for Trending

- ▶ Specifically Designed to Use with MH214-3A Magnet
- ▶ Comfortable Ergonomic Design Makes Data Collection Easy
- ▶ ± 80 g, peak Dynamic Range

AC116-1A

2 Pin Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity ($\pm 10\%$)	100 mV/g		<u>Environmental</u>		
Frequency Response (± 3 dB)	30-900,000 CPM	0.5-15000 Hz	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Dynamic Range	± 80 g, peak		Maximum Shock Protection	5,000 g, peak	
Transverse Sensitivity	$\leq 5\%$		Electromagnetic Sensitivity	CE	
<u>Electrical</u>			Sealing	Welded, Hermetic	
Settling Time	<2.5 seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	14 $\mu\text{g}/\sqrt{\text{Hz}}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2.3 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	4.4 oz	124 grams
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Integral Stud	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	<10 ⁸ ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Calibration Certificate	CA10	

Typical Frequency Response

