

AC146 Series

Low Cost, Miniature Industrial, Magnet Mount, Multipurpose Accelerometer,
Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Standard, Route-Based Sensor

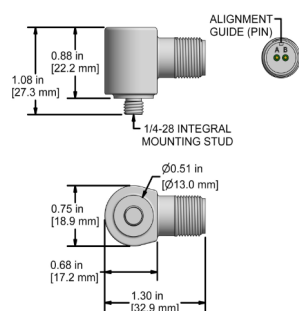
Excellent Sensor for Trending

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

AC146-1D

2 Pin mini-MIL Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity ($\pm 15\%$)	100 mV/g		<u>Environmental</u>		
Frequency Response ($\pm 3\text{dB}$)	36-900,000 CPM	0,6-15000 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	30 $\mu\text{g}/\sqrt{\text{Hz}}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	1.6 oz	45.3 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 mini-MIL	
Case Isolation	>10 ⁵ ohm		Resonant Frequency	2,040,000 CPM	34000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Calibration Certificate	CA10	

Typical Frequency Response

