

# AC146 Series

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



VIBRATION ANALYSIS HARDWARE



## Product Features

Standard, Route-Based Sensor

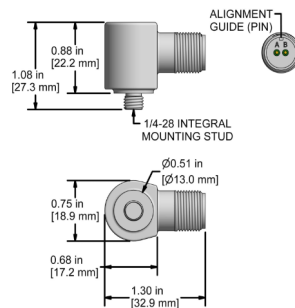
Excellent Sensor for Trending

- ▶ 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



Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±15%)		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
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Maximum Shock Protection	5,000 g, peak	
<b>Electrical</b>			Electromagnetic Sensitivity	CE	
Settling Time	<2.5 seconds		Sealing	Welded, Hermetic	
Voltage Source	18-30 VDC		SIL Rating	SIL 2	
Constant Current Excitation	2-10 mA		<b>Physical</b>		
Spectral Noise @ 10 Hz	30 µg/√Hz		Sensing Element	PZT Ceramic	
Spectral Noise @ 100 Hz	4 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Weight	1.6 oz	45.3 grams
Output Impedance	<100 ohm		Case Material	316L Stainless Steel	
Bias Output Voltage	10-14 VDC		Mounting Thread	1/4-28 Integral Stud	
Case Isolation	>10 <sup>8</sup> ohm		Connector (Non-Integral)	2 Pin mini-MIL	
			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

