

AC184-M12A Series

Multipurpose Accelerometer, Side Exit M12 Connector, M8 Captive Bolt, 100 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Perfect for M8 Mounting Applications

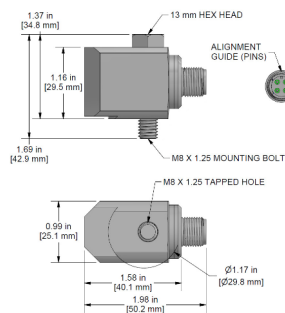
High Performance in a Low Cost Sensor

- ▶ 100 mV/g Sensitivity, $\pm 10\%$
- ▶ ± 80 g, peak Dynamic Range

AC184-M12A

4 Pin Connector

Connector Pin	Polarity
Pin 1	(+) Signal/Power
Pin 2	(-) Common
Pin 3	Not Used
Pin 4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity ($\pm 10\%$)		100 mV/g	<u>Environmental</u>		
Frequency Response (± 3 dB)	30-600,000 CPM	0.5-10000 Hz	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 10\%$)	120-300,000 CPM	2.0-5000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak	Electromagnetic Sensitivity		CE
<u>Electrical</u>			Sealing		Welded, Hermetic
Settling Time	<2.5 seconds		Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	14 μ g/ $\sqrt{\text{Hz}}$		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2.3 μ g/ $\sqrt{\text{Hz}}$		Weight	6 oz	170 grams
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting		M8
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,200,000 CPM	20000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware		M8 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response

