

AC184-M12A Series

Multipurpose Accelerometer, Side Exit M12 Connector, M8x1.25 Captive Bolt, 100 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

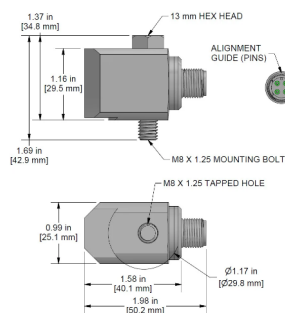
Perfect for M8 Mounting Applications
High Performance in a Low-Cost Sensor

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

AC184-M12A

4 Pin Connector

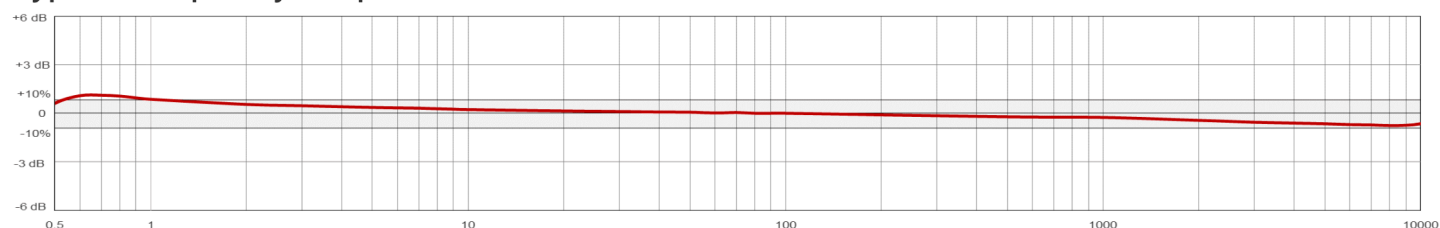
Connector Pin	Polarity
Pin 1	(+) Signal/Power
Pin 2	(-) Common
Pin 3	Not Used
Pin 4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity ($\pm 10\%$)		100 mV/g	Environmental		
Frequency Response (± 3 dB)	30-600,000 CPM	0.5-10000 Hz	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Dynamic Range	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Maximum Shock Protection		5,000 g, peak
Transverse Sensitivity	$\leq 5\%$		Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
Settling Time	<2.5 seconds		Submersible Depth	200 ft.	60 m
Voltage Source	18-30 VDC		SIL Rating		SIL 2
Constant Current Excitation	2-10 mA		Physical		
Spectral Noise @ 10 Hz	14 μ g/ $\sqrt{\text{Hz}}$		Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz	2.3 μ g/ $\sqrt{\text{Hz}}$		Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		Weight	6 oz	170 grams
Output Impedance	<100 ohm		Case Material		316L Stainless Steel
Bias Output Voltage	10-14 VDC		Mounting Thread		M8x1.25
Case Isolation	>10 ⁸ ohm		Connector (Non-Integral)		2 Pin MIL-C-5015
			Resonant Frequency	1,200,000 CPM	20000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

Typical Frequency Response



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