

AC184-M12A Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

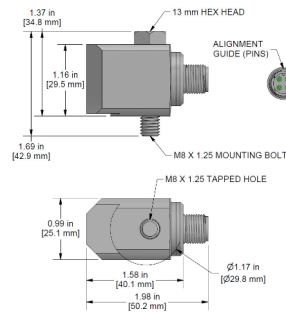
Perfect for M8 Mounting Applications
High Performance in a Low-Cost Sensor

- ▶ 100 mV/g Sensitivity, ± 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



Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	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 ≥ 22V, 12Vbias		Maximum Shock Protection	5,000 g, peak	
Electrical			Electromagnetic Sensitivity	CE	
Settling Time	<2.5 seconds		Sealing	Welded, Hermetic	
Voltage Source	18-30 VDC		Submersible Depth	200 ft.	60 m
Constant Current Excitation	2-10 mA		SIL Rating	SIL 2	
Spectral Noise @ 10 Hz	14 µg/√Hz		Physical		
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Sensing Element	PZT Ceramic	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Sensing Structure	Shear Mode	
Output Impedance	<100 ohm		Weight	6 oz	170 grams
Bias Output Voltage	10-14 VDC		Case Material	316L Stainless Steel	
Case Isolation	>10 ⁸ ohm		Mounting Thread	M8x1.25	
			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

