

AC234-M12A Series



VIBRATION ANALYSIS HARDWARE

Premium, Low Frequency Accelerometer, Side Exit 4 Pin M12 Connector, 500 mV/g, ±5%



Product Features

Designed for Low-Speed Rotors, Main Bearings, and Gear Box Inputs, but Can Also be Used for High Frequency Detection

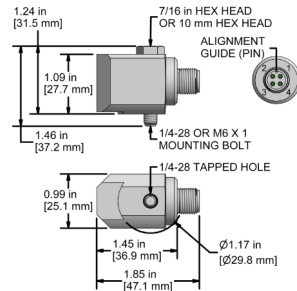
- ▶ 500 mV/g Sensitivity, ±5% Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
8,000 Hz for High Frequency Detection
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are Only for Permanent Monitoring Applications

AC234-M12A

4 Pin Connector

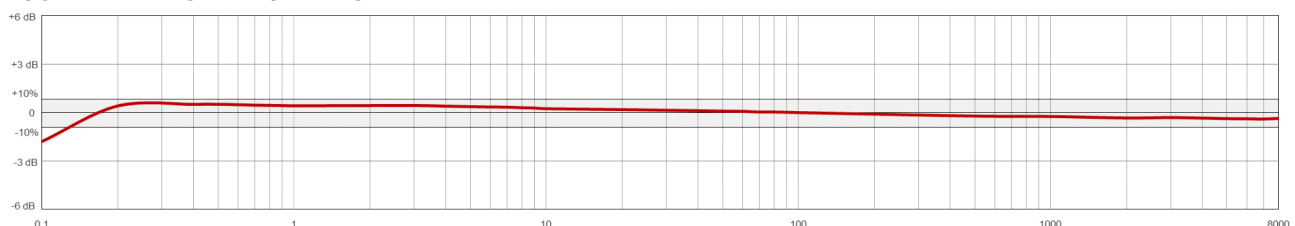
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC234-M12A	AC234	Environmental		
Sensitivity (±5%)	500 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	6-480,000 CPM	0,1-8000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	5.7 oz	160 grams
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Connector (Non-Integral)	4 Pin M12	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,080,000 CPM	1,080,000 CPM
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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