

AC102-M12A Series

Multi-Purpose Accelerometer, 100 mV/g, with 4 Pin M12 Top Connector



VIBRATION ANALYSIS HARDWARE



Product Features

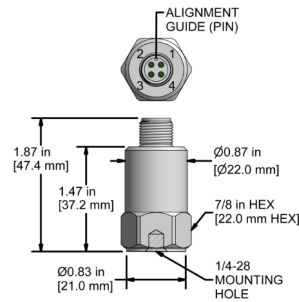
Affordably Priced, Hermetically Sealed Sensors
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶ ± 50 g, peak Dynamic Range
- ▶ Common M12 Connection

AC102-M12A

4 Pin Connector

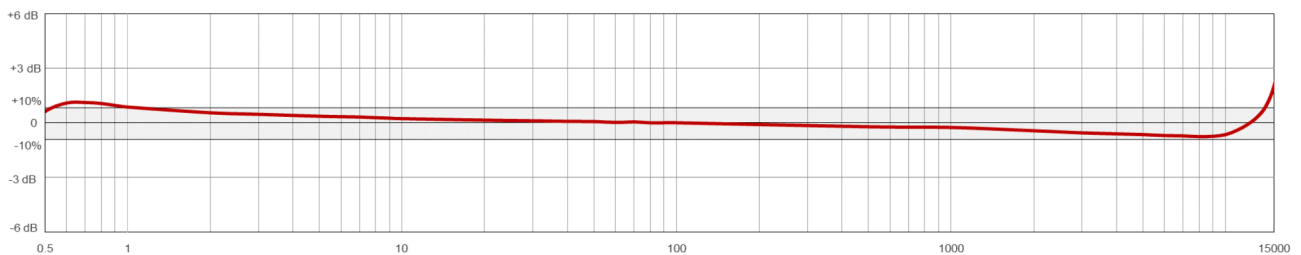
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC102-M12A	M/AC102-M12A	Environmental		
Sensitivity ($\pm 10\%$)		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121 °C
Frequency Response (± 3 dB)	30-900,000 CPM	0,5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	120-600,000 CPM	2,0-10000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 50 g, peak	Sealing		Welded, Hermetic
Electrical			Physical		
Settling Time		<2.5 seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	3.2 oz	90 grams
Spectral Noise @ 10 Hz		14 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		2.3 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting		1/4-28
Spectral Noise @ 1000 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$	Connector (Non-Integral)		4 Pin M12
Output Impedance		<100 ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage		10-14 VDC	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation		>10 ⁸ ohm	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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