

AC102-M12A Series

Multipurpose Accelerometer, Top Exit 4 Pin M12 Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



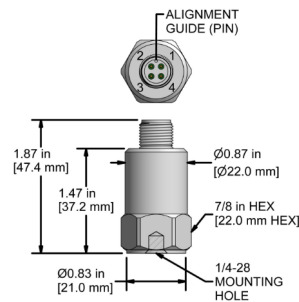
Product Features

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 (±10%)	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0,5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±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 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Mounting	1/4-28	
Spectral Noise @ 1000 Hz	2 µg/√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	