

AC202-M12A Series

Premium Accelerometer, Top Exit 4 Pin M12 Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

High-Performance Sensor for Demanding Applications

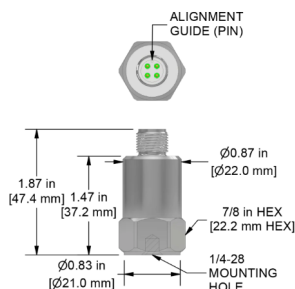
High Dynamic Range with Excellent Frequency Response

- ▶ ±80 g, Dynamic Range
- ▶ Excellent Bias Stability Throughout Operating Temperature Range

AC202-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	AC202-M12A	M/ or M8/AC202-M12A	Environmental		
Sensitivity (±5%)	100 mV/g		Operating 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%)	60-420,000 CPM	1.0-7000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Transverse Sensitivity	≤5%		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<2.0 seconds		Sensing Structure	Shear Mode	
Voltage Source	18-30 VDC		Weight	3.2 oz	90 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	8 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 100 Hz	4 µg/√Hz		Connector (Non-Integral)	4 Pin M12	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Resonant Frequency	1,560,000 CPM	26000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	
Dielectric Breakdown Voltage	SIL 2				

Typical Frequency Response

