

AC117-M12A Series

High G Measurement Accelerometer, Top Exit 4 Pin M12 Connector, 50 mV/g, $\pm 10\%$



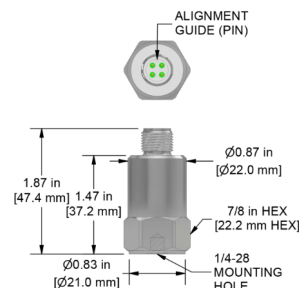
Product Features

- 50 mV/g General Purpose Sensor
- Excellent for Higher g Applications
- ▶ ± 100 g, Dynamic Range
- ▶ 50 mV/g, $\pm 10\%$ Sensitivity
- ▶ 1,0-12500 Hz (60-750,000 CPM)

AC117-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	AC117-M12A	M/ or M8/AC117-M12A	Environmental		
Sensitivity ($\pm 10\%$)	50 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 100 g, peak		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	$\leq 5\%$		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	5 Seconds		Physical		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	8 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	1.7 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	4 Pin M12	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

