

AC117-M12A Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

50 mV/g General Purpose Sensor

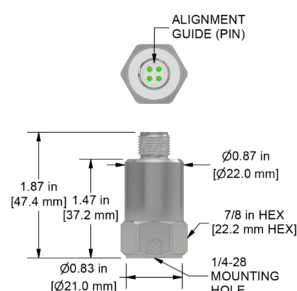
Excellent for Higher g Applications

- ▶ ±100 g, Dynamic Range
- ▶ 50 mV/g, ±10% Sensitivity
- ▶ 1,0-12500 Hz (60-750,000 CPM)

AC117-M12A

4 Pin Connector

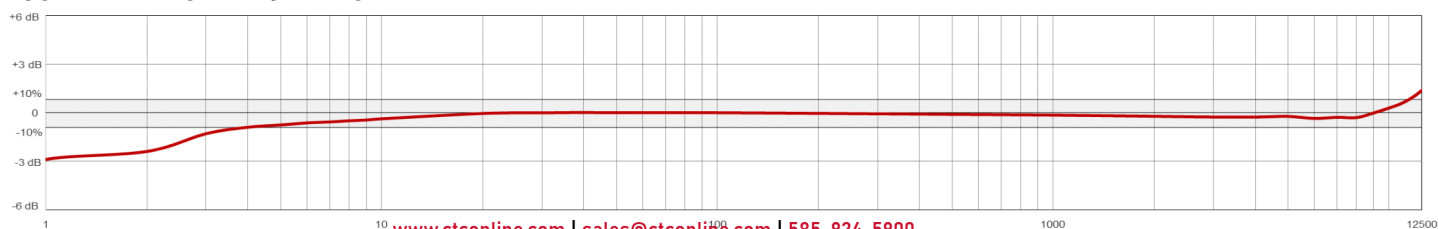
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC117-M12A	M/ or M8/AC117-M12A	<u>Environmental</u>		
Sensitivity (±10%)	50 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 100 g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	≤5%		Sealing	Welded, Hermetic	
<u>Electrical</u>			SIL Rating	SIL 2	
Settling Time	5 Seconds		<u>Physical</u>		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	8 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2.5 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	1.7 µg/√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



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