

AC215-M12A Series

Premium, Low Frequency Accelerometer, Side Exit 4 Pin M12 Connector,
1,000 mV/g, $\pm 5\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Designed for Low-Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also Be Used for High Frequency Detection

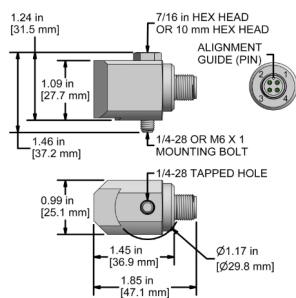
May be Used with Any Application That Requires Low and High Frequency Measurements

- ▶ 1000 mV/g Sensitivity
- ▶ 0.1 Hz to 8 kHz Frequency Response ($\pm 3\text{dB}$)

AC215-M12A

4 Pin M12 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	AC215-M12A	M/AC215-M12A	<u>Environmental</u>		
Sensitivity ($\pm 5\%$)	1000 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection	5000 g, peak	
Frequency Response ($\pm 10\%$)	36-180,000 CPM	0.6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 7 g, peak		Sealing	Welded, Hermetic	
	*Vsource $\geq 22\text{V}$, 12Vbias		SIL Rating	SIL 2	
Transverse Sensitivity	$\leq 5\%$		<u>Physical</u>		
<u>Electrical</u>			Sensing Element	PZT Ceramic	
Settling Time	< 2 seconds		Sensing Structure	Shear Mode	
Voltage Source	18-30 VDC		Weight	5.7 oz	162 g
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	1.3 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	M12	
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$		Resonant Frequency	1,020,000 CPM	18000 Hz
Spectral Noise @ 1000 Hz	0.1 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance	< 100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	> 10^8 ohm				

Typical Frequency Response

