

AC128-M12A Series

Low Cost, High G Measurement Accelerometer, Side Exit 4 Pin M12 Connector, 50 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



Product Features

50 mV/g General-Purpose, Side-Exit Sensor

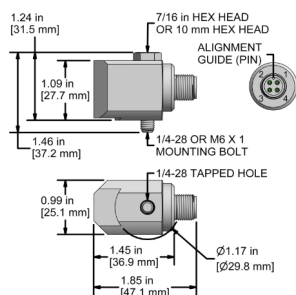
Excellent for Higher g Applications

- ▶ ± 100 g, Dynamic Range
- ▶ 50 mV/g, $\pm 15\%$ Sensitivity

AC128-M12A

4 Pin M12 Connector

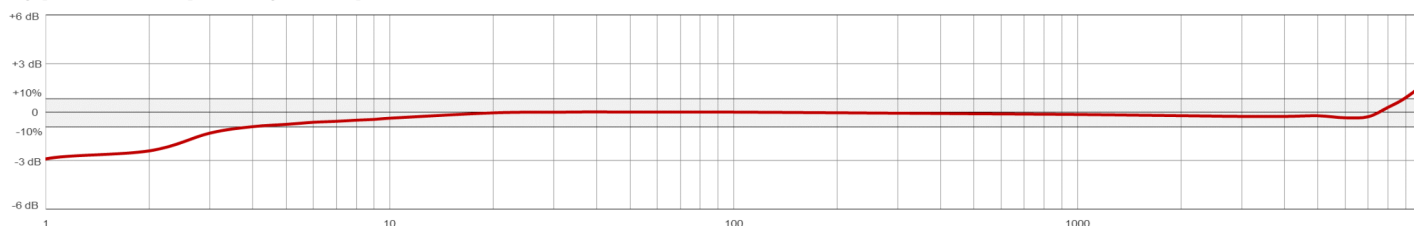
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC128-M12A	M/AC128-M12A	<u>Environmental</u>		
Sensitivity ($\pm 15\%$)	50 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 100 g, peak *Vsource ≥ 22 V, 12Vbias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	$\leq 5\%$		Sealing	Welded, Hermetic	
<u>Electrical</u>			Submersible Depth	200 ft.	60 m
Settling Time	5 Seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	8 μ g/ $\sqrt{\text{Hz}}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2.5 μ g/ $\sqrt{\text{Hz}}$		Weight	5.1 oz	145 grams
Spectral Noise @ 1000 Hz	1.7 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Broadband Noise Floor (10 to 15k Hz)	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,260,000 CPM	21000 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 Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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