

AC115-M12D Series



Low Cost Triaxial Accelerometer, Side Exit 4 Pin M12 Connector, 100 mV/g, $\pm 15\%$

VIBRATION ANALYSIS HARDWARE



Product Features

Low Cost Triaxial Sensor

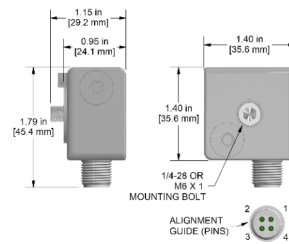
Speeds Data Collection

- ▶ $\pm 15\%$ Sensitivity
- ▶ Collect 3 Channels of Data Simultaneously
- ▶ Compatible with M4A, M4N, and M4C Connectors

AC115-M12D

4 Pin Connector

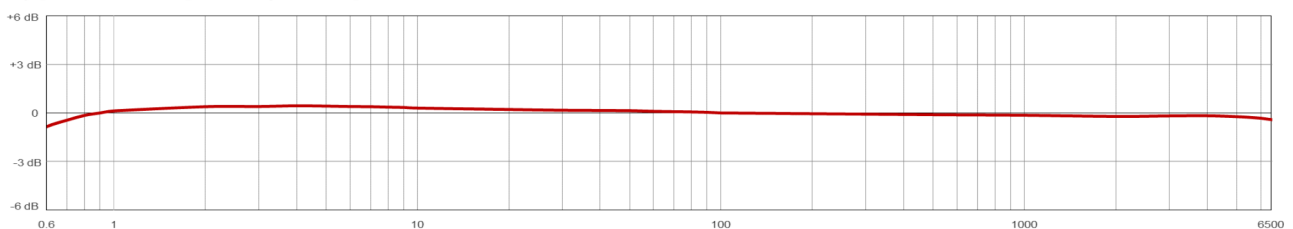
Connector Pin	Polarity
1 (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power
4	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC115-M12D	M/AC115-M12D	Environmental		
Sensitivity ($\pm 15\%$)		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 3\text{dB}$)	60-390,000 CPM	1,0-6500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 g, peak		Sealing	Welded, Hermetic	
Electrical			Physical		
Settling Time	<2.5 seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	7.1 oz	200 grams
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting	1/4-28	
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	4 Pin M12 Connector	
Output Impedance	<100 ohm		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation	$>10^8$ ohm		Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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