

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

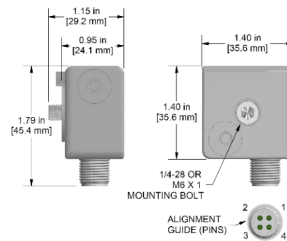
Speeds Data Collection

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

AC115-M12D

4 Pin Connector

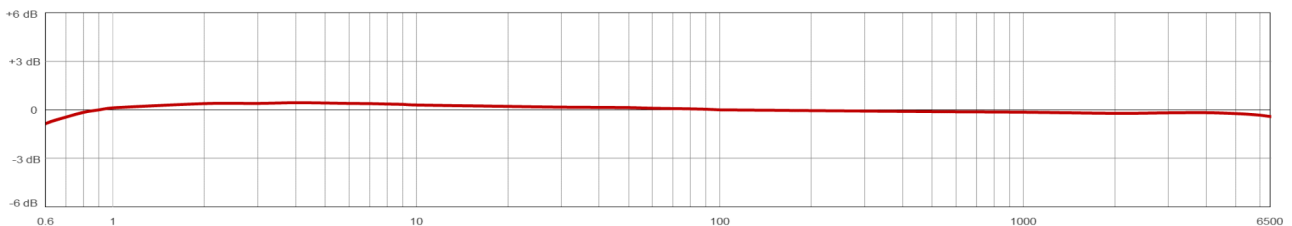
Connector Pin	Polarity
1 (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power
4	(-) Common



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



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www.ctc-sensor.com