AC115-M12D Series

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

VIBRATION ANALYSIS HARDWARE



Product Features

Low Cost Triaxial Sensor

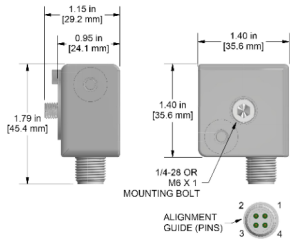
Speeds Data Collection

- ±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
Part Number	AC115-M12D	M/AC115-M12D
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	60-390,000 CPM	1,0-6500 Hz
Dynamic Range	± 50 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	27 µg/√Hz	
Spectral Noise @ 100 Hz	6.5 µg/√Hz	
Spectral Noise @ 1000 Hz	2.5 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (Non-Integral)	4 Pin M12 Connector	
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Typical Frequency Response

