

AC115-M12D Series

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



Product Features

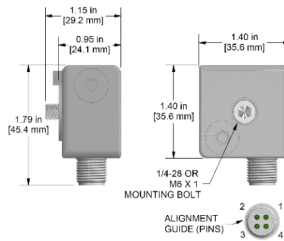
Collect Three Channels of Data Simultaneously for Faster Data Collection

- ▶ Cost-Effective, Rugged Triaxial Sensor
- ▶ Compatible with CTC M4 Series Connectors

AC115-M12D

4 Pin M12 Connector

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



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC115-M12D	M/AC115-M12D	Environmental		
Sensitivity (±15%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	60-390,000 CPM	1,0-6500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		Physical		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	27 µg/√Hz		Weight	7.1 oz	200 grams
Spectral Noise @ 100 Hz	6.5 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2.5 µg/√Hz		Connector (Non-Integral)	4 Pin M12 Connector	
Output Impedance	<100 ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response

