

# AC115-M12D Series



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

VIBRATION ANALYSIS HARDWARE



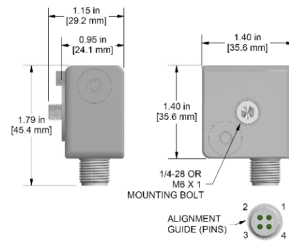
## Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

- ▶ Cost Effective, Rugged Triaxial Sensor Ideally Suited for a Wide Variety of Industrial Applications
- ▶ 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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC115-M12D	M/AC115-M12D	<b>Environmental</b>		
Sensitivity ( $\pm 15\%$ )	100 mV/g		Operating 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	$\pm 50$ g, peak *Vsource $\geq 22\text{V}$ , 12Vbias		Sealing	Welded, Hermetic	
<b>Electrical</b>			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	7.1 oz	200 grams
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$		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 <sup>8</sup> ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt