

# AC104-M12A Series



VIBRATION ANALYSIS HARDWARE

Multipurpose Accelerometer, Side Exit 4 Pin M12 Connector, 100 mV/g,  $\pm 10\%$



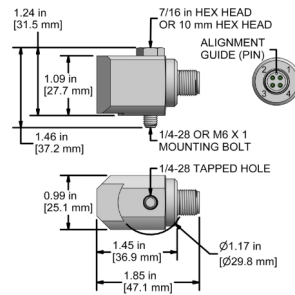
## Product Features

Affordably Priced, Hermetically Sealed Sensors  
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶  $\pm 50$  g, peak Dynamic Range
- ▶ Common M12 Connection

### AC104-M12A 4 Pin Connector

Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC104-M12A	M/AC104-M12A	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121 °C
Frequency Response ( $\pm 3$ dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ( $\pm 10\%$ )	120-420,000 CPM	2,0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range	$\pm 50$ g, peak		Sealing		Welded, Hermetic
<b>Electrical</b>			<b>Physical</b>		
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	5.1 oz	145 grams
Spectral Noise @ 10 Hz	14 $\mu$ g/ $\sqrt$ Hz		Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz	2.3 $\mu$ g/ $\sqrt$ Hz		Mounting		1/4-28
Spectral Noise @ 1000 Hz	2 $\mu$ g/ $\sqrt$ Hz		Connector (Non-Integral)		4 Pin M12
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation	>10 <sup>8</sup> ohm		Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10