

AC104-M12A Series

Multipurpose Accelerometer, Side Exit 4 Pin M12 Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

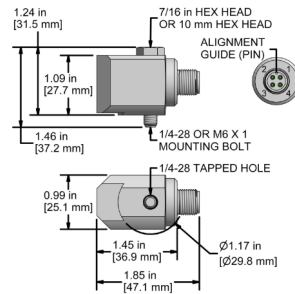
Affordably Priced, Hermetically Sealed Sensors

- ▶ 100 mV/g Sensitivity
- ▶ ± 80 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



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC104-M12A	M/AC104-M12A	Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
Settling Time		<2.5 seconds	SIL Rating		SIL 2
Voltage Source		18-30 VDC	Physical		
Constant Current Excitation		2-10 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		14 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Weight	5.1 oz	145 grams
Spectral Noise @ 1000 Hz		2 µg/√Hz	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Connector (Non-Integral)		4 Pin M12
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation		>10 ⁸ ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response

