

AC104-M12A Series

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



Product Features

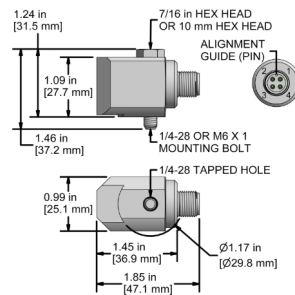
Affordably Priced, Hermetically Sealed Sensors

- ▶ 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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC104-M12A	M/AC104-M12A	Environmental		
Sensitivity ($\pm 10\%$)		100 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Electromagnetic Sensitivity		CE
Transverse Sensitivity	$\leq 5\%$		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	14 μ g/ $\sqrt{\text{Hz}}$		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	2.3 μ g/ $\sqrt{\text{Hz}}$		Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		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 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response

