



AC102-M12A Series

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



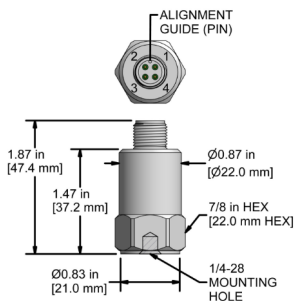
Product Features

Affordably Priced, Hermetically Sealed Sensors
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶ ± 80 g, peak Dynamic Range
- ▶ Common M12 Connection

AC102-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	AC102-M12A	M/ or M8/AC102-M12A	<u>Environmental</u>		
			Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Sensitivity (±10%)	100 mV/g		Maximum Shock Protection		5,000 g, peak
Frequency Response (±3dB)	30-900,000 CPM	0,5-15000 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±10%)	120-600,000 CPM	2,0-10000 Hz	Sealing		Welded, Hermetic
			SIL Rating		SIL 2
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		<u>Physical</u>		
			Sensing Element		PZT Ceramic
			Sensing Structure		Shear Mode
<u>Electrical</u>			Weight	3.2 oz	90 grams
Settling Time	<2.5 seconds		Case Material		316L Stainless Steel
Voltage Source (IEPE)	18-30 VDC		Mounting Thread		1/4-28 Blind Tapped Hole
Constant Current Excitation	2-10 mA		Connector (Non-Integral)		4 Pin M12
Spectral Noise @ 10 Hz	14 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 100 Hz	2.3 µg/√Hz				
Spectral Noise @ 1000 Hz	2 µg/√Hz				
Output Impedance	<100 ohm				