

AC294-M12A Series

Premium Compact Accelerometer, 4 Pin M12 Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

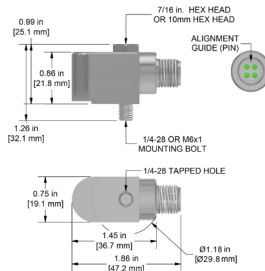
Superior RF Immunity in a Compact 100 mV/g Sensor

- ▶ ± 80 g, Dynamic Range
- ▶ 4 Pin M12 Connector

AC294-M12A

4 Pin Connector

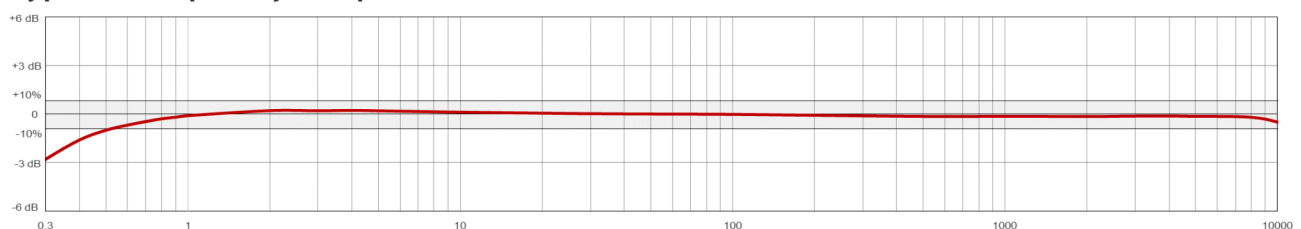
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC294-M12A	M/AC294-M12A	Environmental		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	18-600,000 CPM	0,3-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-150,000 CPM	1,0-2500 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±5%)	600-120,000 CPM	10-2000 Hz	Sealing		Welded, Hermetic
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Submersible Depth	200 ft.	60 m
Electrical			Physical		
Settling Time		<2 Seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	3.3 oz	93 grams
Spectral Noise @ 10 Hz		8 µg/vHz	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		4 µg/vHz	Connector (Non-Integral)		4 Pin M12 Connector
Spectral Noise @ 1000 Hz		2 µg/vHz	Resonant Frequency	1,200,000 CPM	20000 Hz
Output Impedance		<100 ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 ⁸ ohm	Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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