

AC294-M12A Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

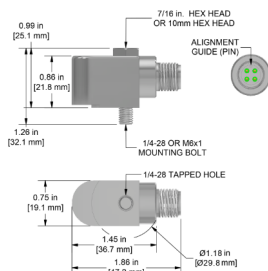
Superior RF Immunity in a Compact 100 mV/g Sensor

- ▶ ± 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	<u>Environmental</u>		
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
Transverse Sensitivity	≤5%		<u>Physical</u>		
<u>Electrical</u>			Sensing Element	PZT Ceramic	
Settling Time	<2 Seconds		Sensing Structure	Shear Mode	
Voltage Source	18-30 VDC		Weight	3.3 oz	93 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	8 µg/vHz		Connector (Non-Integral)	4 Pin M12 Connector	
Spectral Noise @ 100 Hz	4 µg/vHz		Resonant Frequency	1,200,000 CPM	20000 Hz
Spectral Noise @ 1000 Hz	2 µg/vHz		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

