AC292-M12A Series

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

VIBRATION ANALYSIS HARDWARE

CE

Product Features

Superior RF Immunity in a Compact 100 mV/g Sensor

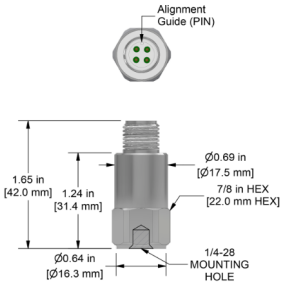
Improved Linearity

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

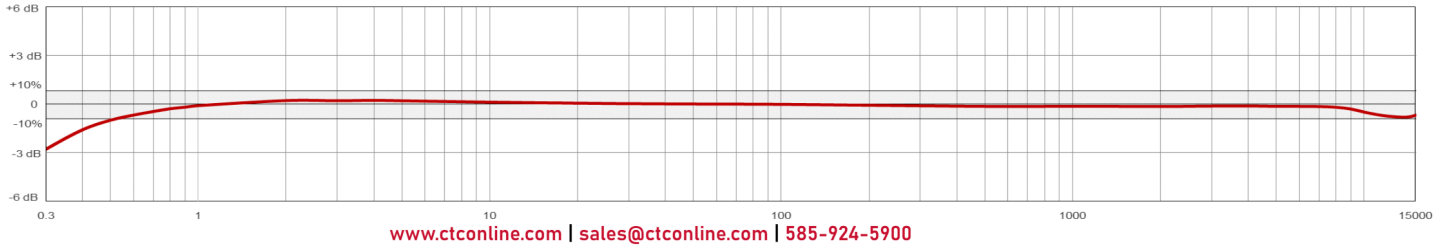
AC292-M12A

4 Pin Connector

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



Specifications	Standard	Metric
Part Number	AC292-M12A	M/ or M8/AC292-M12A
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	18-900,000 CPM	0,3-15000 Hz
Frequency Response (±10%)	60-600,000 CPM	1,0-10000 Hz
Frequency Response (±5%)	600-300,000 CPM	10-5000 Hz
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias	
Electrical		
Settling Time	<2 Seconds	
Voltage Source	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	8 µg/√Hz	
Spectral Noise @ 100 Hz	4 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	1.8 oz	51 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Blind Tapped Hole	
Connector (Non-Integral)	4 Pin M12	
Resonant Frequency	1,560,000 CPM	26000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Calibration Certificate	CA10	

Typical Frequency Response