

Low Noise Accelerometers

100mV/g



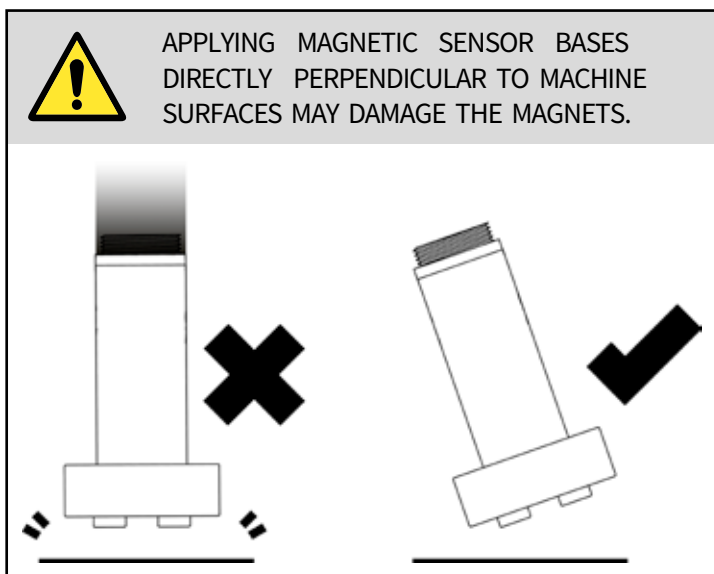
AC500-2P Low Noise Accelerometer

The AC500-2P is a compact, multi-purpose accelerometer; top exit connector and cable with a sensitivity of 100 mV/g. Constructed of stainless-steel for indoor and outdoor environments. Perfectly suited for machine condition monitoring and/or offline applications with data collectors, vibration analyzers and balancing machines.

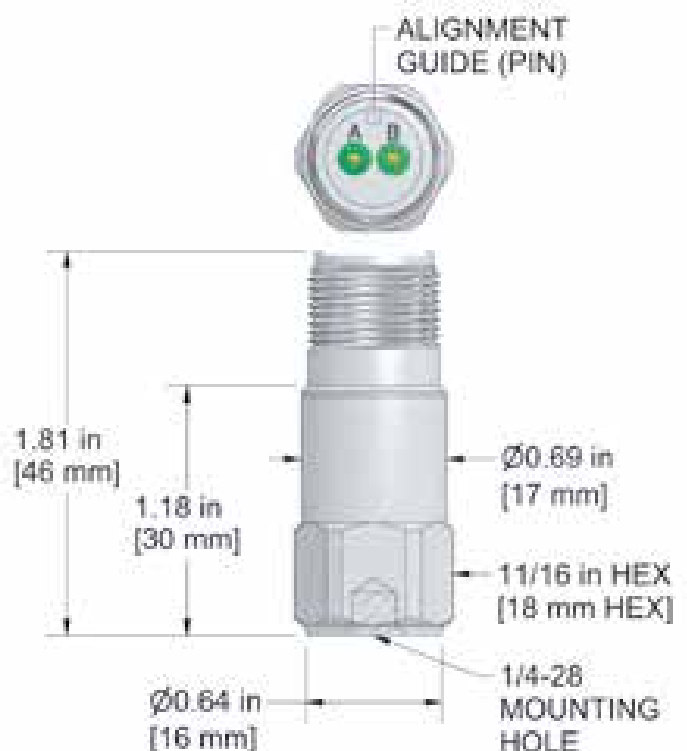
Features:

- High-Performance
- Compact sensor
- Very Low Noise
- Superior RF Immunity
- ±80 G Peak Dynamic Range
- ± 10% Sensitivity
- Standard 2 Pin MIL Connection

Unless otherwise specified, all accelerometers are fitted with a removable magnetic base.



AC500-2P Dimensions

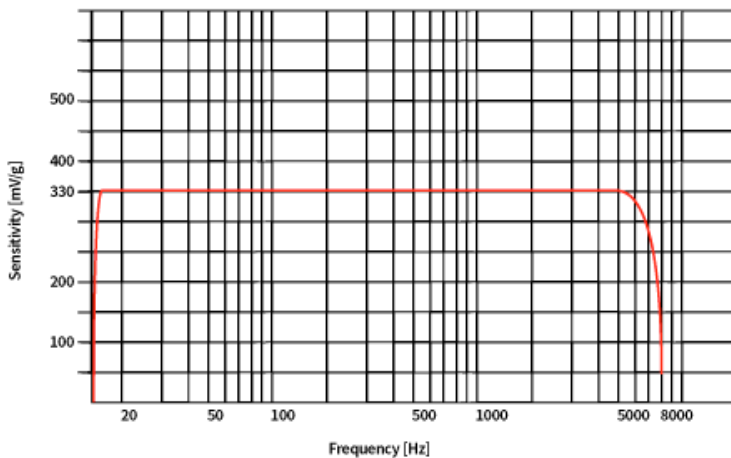


Technical Specs

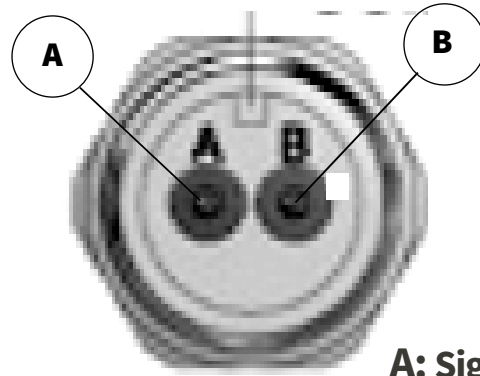
Specifications	Standard	Metric
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	24-780,000 CPM	0,4-13000 Hz
Frequency Response (±10%)	60-540,000 CPM	1,0-9000 Hz
Dynamic Range	± 80 g, peak	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
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		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC192-2D/3D)	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	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,560,000 CPM	26000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

Frequency Response



Pin Configuration



A: Signal Power(+)
B: Common (-)