

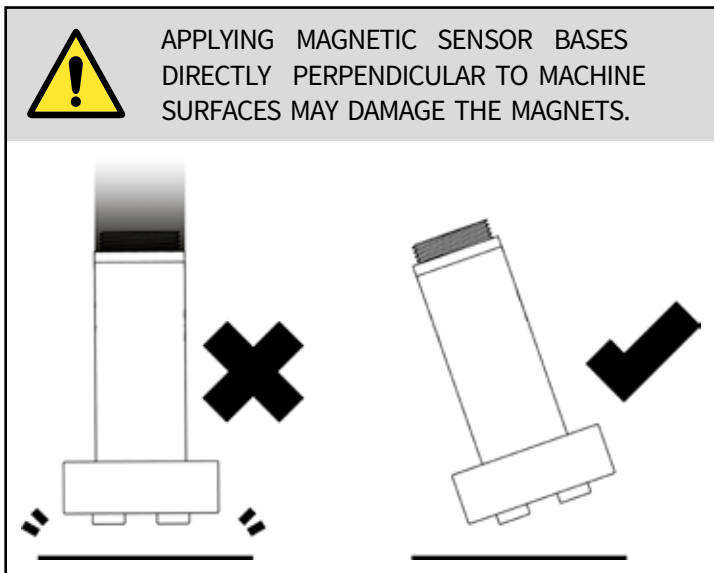
# Low Power Accelerometers 100mV/g

## AC500-3P Low Power Accelerometer

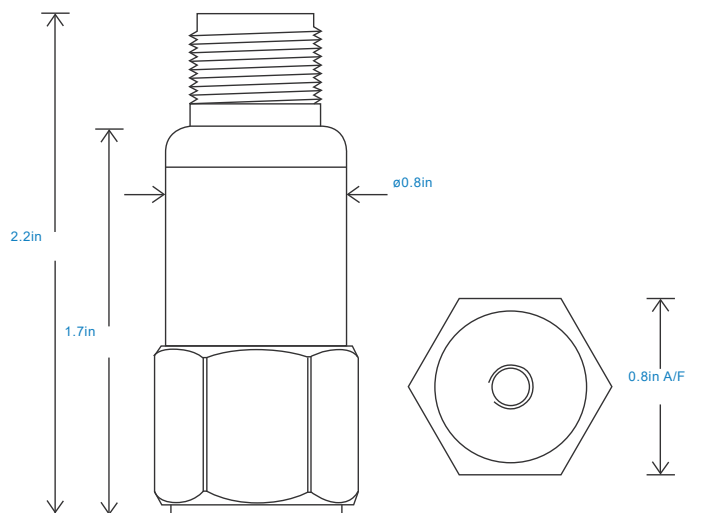
The AC500-3P is a compact, multi-purpose accelerometer; top exit connector and cable with a sensitivity of 100 mV/g. Constructed of stainless-steel for indoor and outdoor environments. Perfectly suited for machine condition monitoring and/or offline applications with data collectors, vibration analyzers and balancing machines.

### Features:

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



### AC500-3P Dimensions



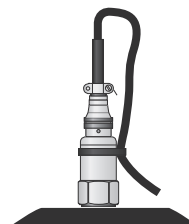
# Technical Specs

Technical Performance		Electrical	
Mounted Base Resonance	25kHz	Electrical Noise	< 500µg
Sensitivity	100mv/g	Power Requirements	5V nominal
	18cpm (0.3Hz) to 600kcpm (10kHz) ± 10%	Current Consumption	100µA nominal at 5V supply (60µA at 1.8V)
	Base isolated	Bias Voltage	50% of supply voltage
Range	± 20g	Settling Time	1 second
Transverse Sensitivity	Less than 5%	Output Impedance	100 Ohms max.
Amplitude Linearity	±1%	Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts

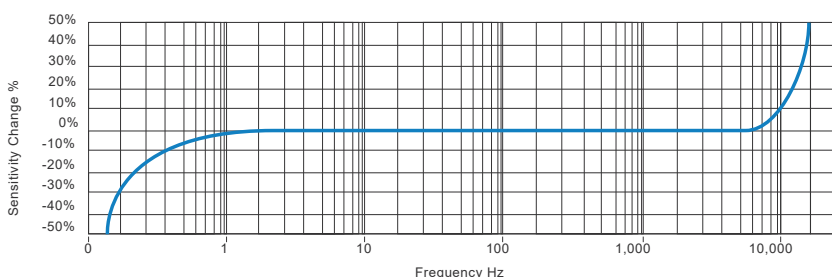
Environmental	Applications
Operating Temperature Range	-58 to 257°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

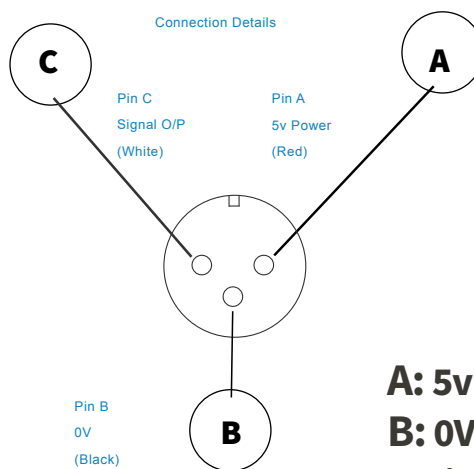
Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



## Frequency Response



## Pin Configuration



**A: 5v Power**  
**B: 0V**  
**C: Signal O/P**