

# 3-Axis low noise Accelerometer



## 3-Axis Accelerometer

The 3-Axis Accelerometer is a compact, multi-purpose triaxial 100 mV/g accelerometer with integrated cable. Constructed of stainless-steel for indoor and outdoor environments. Perfectly suited for machine condition monitoring and/or offline applications with data collectors and vibration analyzers.

### Features:

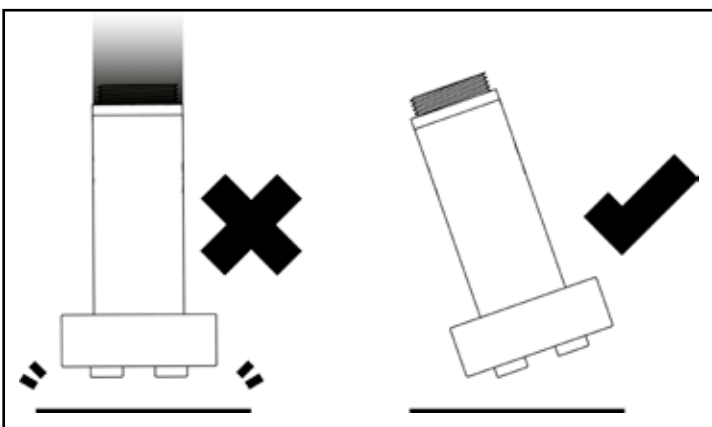
- High-Performance
- Speeds Data Collection
- 3 simultaneous channels
- ±50 G Peak Dynamic Range
- ±15% Sensitivity
- Integral Cable

The 3-Axis Accelerometer includes a magnetic base and cable.

\*Note: i800c 4 channel interface is required for Triaxial data collection.



APPLYING MAGNETIC SENSOR BASES DIRECTLY PERPENDICULAR TO MACHINE SURFACES MAY DAMAGE THE MAGNETS.



### Dimensions



# Technical Specs

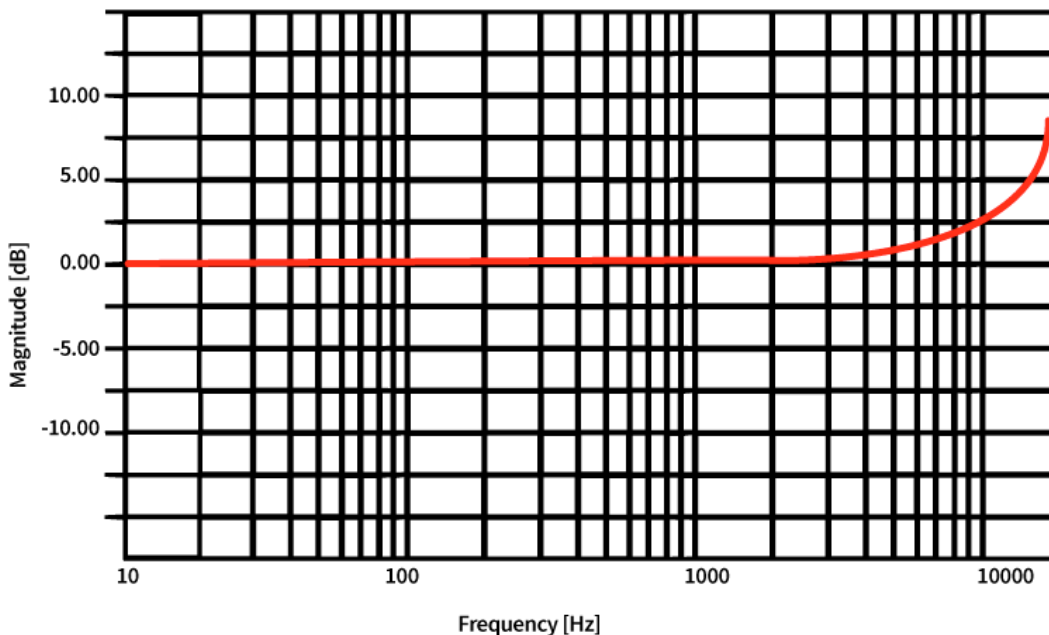
Specifications	Standard	Metric
Part Number	3AACCEL	
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	60-390,000 CPM	1,0-6500 Hz
Dynamic Range	± 50 g, peak	
Electrical		
Settling Time	<2.5 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	27µg/√Hz	
Spectral Noise @ 100 Hz	6.5µg/√Hz	
Spectral Noise @ 1000 Hz	2.5µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector	4 Pin	
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware (Stud)	1/4-28	M6x1 Adapter
Calibration Certificate	CA10	

## Cable Configuration

Conductor		Polarity
Red	Axis Y	(+) Signal / Power
Green	Axis X	(+) Signal / Power
White	Axis Z	(+) Signal / Power
Black	Ground	(-) Common / Grid

## Frequency Response



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