

## Premium Series, Magnet Mount Accelerometer, Side Exit Connector, 100 mV/g

Section I - Vibration Sensors

Actual Product Size Shown



### Product Features

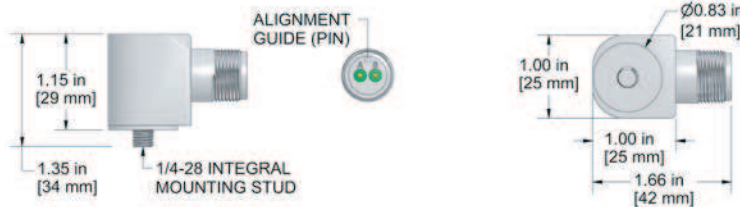
**Premium Route-Based Sensor**  
High Performance at a Reasonable Price

- Specifically Designed to Use with MH214-3A Magnet
- Comfortable Ergonomic Design Makes Data Collection Easy
- $\pm 80$  g, Peak Dynamic Range,  $\pm 5\%$  Sensitivity

### AC216-1A

2 Pin Connector

Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common



Specifications	Standard	Metric
Part Number	AC216	
Sensitivity ( $\pm 5\%$ )	100 mV/g	
Frequency Response ( $\pm 3$ dB)	30-900,000 CPM	0,5-15000 Hz
Frequency Response ( $\pm 10\%$ )	60-600,000 CPM	1,0-10000 Hz
Frequency Response ( $\pm 5\%$ )	120-420,000 CPM	2,0-7000 Hz
Dynamic Range	$\pm 80$ g, peak	
<b>Electrical</b>		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	8 $\mu$ g/ $\sqrt$ Hz	
Spectral Noise @ 100 Hz	0.82 $\mu$ g/ $\sqrt$ Hz	
Spectral Noise @ 1000 Hz	0.3 $\mu$ g/ $\sqrt$ Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
<b>Physical</b>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	4.4 oz	124 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Integral Stud	M6x1 Integral Stud
Calibration Certificate	CA10	

### Ordering Information

Standard AC216-1A  
(1/4-28 Stud)



Backed by our Unconditional Lifetime Warranty

www.ctconline.com

