

# AC215 Series

## Low & High Frequency Accelerometer, Side Exit Connector, 1000 mV/g



VIBRATION ANALYSIS HARDWARE

REGULATORY APPROVALS



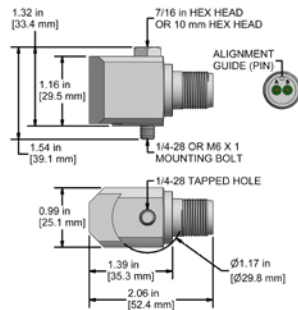
## PRODUCT FEATURES

Designed for Low Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also Be Used for High Frequency Detection.

May be used with any application that requires low and high frequency measurements.

### AC215-1D 2 Pin Connector

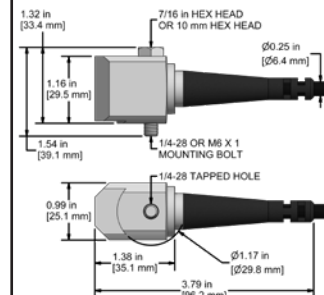
Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common



STOCK PRODUCT

### AC215-2D Integral Cable

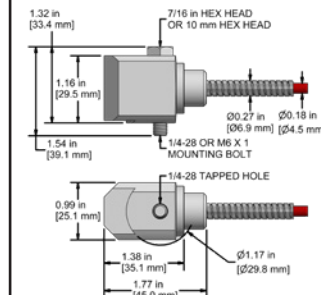
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



BUILD TO ORDER

### AC215-3D Armored Integral Cable

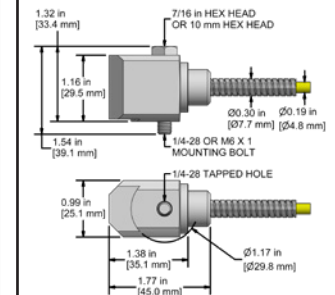
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



BUILD TO ORDER

### AC215-6D Heavy Duty Armored Integral Cable

Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



BUILD TO ORDER

Specifications	Standard	Metric
Part Number	AC215	M/AC215
<b>Vibration</b>		
Sensitivity (± 5%)	1000 mV/g	
Frequency Response (± 3 dB)	6 CPM to 480 kCPM	0.1 Hz to 8 kHz
Frequency Response (± 10%)	36 CPM to 180 kCPM	0.6 Hz to 3 kHz
Dynamic Range	± 7 g, peak	
<b>Electrical</b>		
Settling Time	< 2 seconds	
Voltage Source (IEPE)	18 Vdc to 30 Vdc	
Constant Current Excitation	2 mA to 10 mA	
Spectral Noise @ 10 Hz	1.3 µg/√Hz	
Spectral Noise @ 100 Hz	0.2 µg/√Hz	
Spectral Noise @ 1 kHz	0.1 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10 Vdc to 14 Vdc	
Case Isolation	> 10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58°F to 250°F	-50°C to 121°C
Maximum Shock Protection	5 kg, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic (IP68)	
<b>Physical</b>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.7 ounces	162 grams
Case Material	316L Stainless Steel	
Mounting	Captive Bolt	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1020 kCPM	17 kHz
Mounting Torque	2 ft-lb to 5 ft-lb	2.7 N-m to 6.8 N-m
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

## TYPICAL FREQUENCY RESPONSE

