AC215 Series

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

Product Features

Designed for low speed Rotors, Wind Turbine Main Bearings, and Gear Box Inputs, but can also be used for High Frequency Detection.

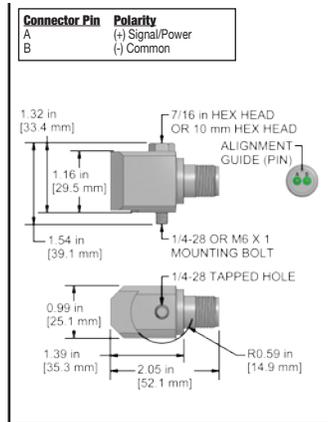**Can be used with any application that requires low and high frequency measurements.**

Actual Product Size Shown

- **1000 mV/g Sensitivity, ±5% Sensitivity**
- **0.1 Hz for Low Frequency Measurements**
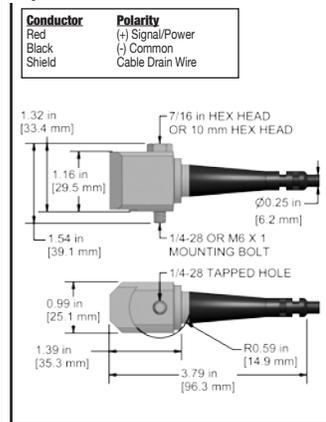- **8,000 Hz for High Frequency Detection**
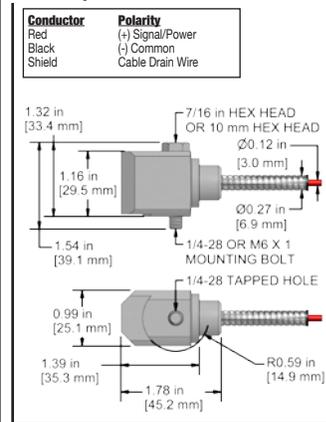
AC215-1D
2 Pin Connector

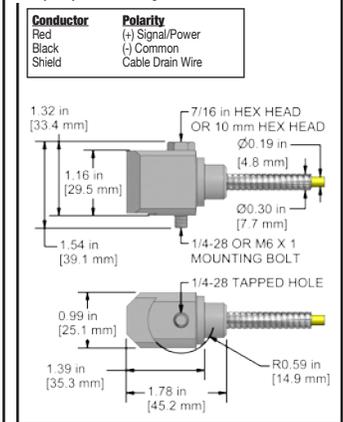| Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common

1.32 in [33.4 mm]
7/16 in HEX HEAD OR 10 mm HEX HEAD
ALIGNMENT GUIDE (PIN)
1.16 in [29.5 mm]
1.54 in [39.1 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE
0.99 in [25.1 mm]
1.39 in [35.3 mm]
2.05 in [52.1 mm]
R0.59 in [14.9 mm]

AC215-2D
Integral Cable

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

1.32 in [33.4 mm]
7/16 in HEX HEAD OR 10 mm HEX HEAD
1.16 in [29.5 mm]
Ø0.25 in [6.2 mm]
1.54 in [39.1 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE
0.99 in [25.1 mm]
1.39 in [35.3 mm]
3.79 in [96.3 mm]
R0.59 in [14.9 mm]

AC215-3D
Armored Integral Cable

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

1.32 in [33.4 mm]
7/16 in HEX HEAD OR 10 mm HEX HEAD
Ø0.12 in [3.0 mm]
1.16 in [29.5 mm]
Ø0.27 in [6.9 mm]
1.54 in [39.1 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE
0.99 in [25.1 mm]
1.39 in [35.3 mm]
1.78 in [45.2 mm]
R0.59 in [14.9 mm]

AC215-6D
Heavy Duty Armored Integral Cable

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

1.32 in [33.4 mm]
7/16 in HEX HEAD OR 10 mm HEX HEAD
Ø0.19 in [4.8 mm]
1.16 in [29.5 mm]
Ø0.30 in [7.7 mm]
1.54 in [39.1 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE
0.99 in [25.1 mm]
1.39 in [35.3 mm]
1.78 in [45.2 mm]
R0.59 in [14.9 mm]

Specifications	Standard	Metric
Part Number	AC215	M/AC215
Sensitivity (±5%)	1000 mV/g	
Frequency Response (±3dB)	6-480,000 CPM	0,1-8000 Hz
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz
Dynamic Range	± 7 g, peak	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.3 µg/√Hz	
Spectral Noise @ 100 Hz	0.2 µg/√Hz	
Spectral Noise @ 1000 Hz	0.1 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	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.7 oz	162 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,080,000 CPM	18000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Ordering Information

Standard	AC215-1D (1/4-28 Captive Bolt) Build To Order	AC215-2D / (1/4-28 Captive Bolt) Build To Order	☐☐☐ - (length in feet) (termination)	AC215-3D / (1/4-28 Captive Bolt) Build To Order	☐☐☐ / (maximum armor length 100 ft.)	☐☐☐ - (cable length in feet) (termination)	AC215-6D / (1/4-28 Captive Bolt) Build To Order	☐☐☐ / (maximum armor length 20 ft.) ☐☐☐ - (cable length in feet) (termination)
Metric	M/AC215-1D (M6x1 Captive Bolt) Build To Order	M/AC215-2D / (M6x1 Captive Bolt) Build To Order	☐☐☐ - (length in feet) (termination) ☐☐☐ M - (length in meters) (termination)	M/AC215-3D / (M6x1 Captive Bolt) Build To Order	☐☐☐ / (maximum armor length 100 ft.) ☐☐☐ M / (maximum armor length 30 m)	☐☐☐ - (cable length in feet) (termination) ☐☐☐ M - (cable length in meters) (termination)	M/AC215-6D / (M6x1 Captive Bolt) Build To Order	☐☐☐ / (maximum armor length 20 ft.) ☐☐☐ M / (maximum armor length 6 m) ☐☐☐ - (cable length in feet) (termination) ☐☐☐ M - (cable length in meters) (termination)

Cable Terminations: E, EX   F, FX   L   Z

Backed by our Unconditional Lifetime Warranty