

AC230 Series

Premium Series Triaxial Accelerometer, Connector/Cable, 100 mV/g

SECTION I - VIBRATION SENSORS
Accelerometers

Actual Product Size Shown



Must Use J4A, J4C, J4N, or J4P Connectors
Must Use CB105, CB117, CB119
or CB218 Cables

Product Features

Premium Triaxial Sensor

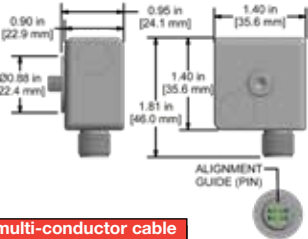
Collect 3 Axes of Data

- Premium $\pm 5\%$ Sensitivity
- Reduces Data Collection Time
- 1/4-28 or M6x1 Captive Bolt

AC230-1D

4 Pin Connector

Connector Pin	Polarity	Azima DLI Compatible Connector Pin	Polarity
A	Axis Y (+) Signal / Power	A	Axis 3 (+) Signal / Power
B	Axis X (+) Signal / Power	B	Axis 2 (+) Signal / Power
C	Axis Z (+) Signal / Power	C	Axis 1 (+) Signal / Power
D	(-) Common / Grid	D	(-) Common / Grid



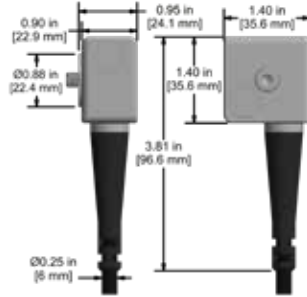
CTC multi-conductor cable

Red = Y axis
Green = X axis
White = Z axis
Black = Common

AC230-2D

Integral Cable

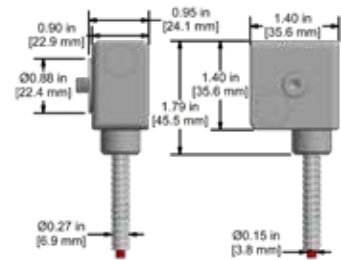
Conductor	Polarity	Azima DLI Compatible Conductor	Polarity
Red	Axis Y (+) Signal / Power	Red	Axis 3 (+) Signal / Power
Green	Axis X (+) Signal / Power	Green	Axis 2 (+) Signal / Power
White	Axis Z (+) Signal / Power	White	Axis 1 (+) Signal / Power
Black	(-) Common / Grid	Black	(-) Common / Grid



AC230-3D

Armored Integral Cable

Conductor	Polarity	Azima DLI Compatible Conductor	Polarity
Red	Axis Y (+) Signal / Power	Red	Axis 3 (+) Signal / Power
Green	Axis X (+) Signal / Power	Green	Axis 2 (+) Signal / Power
White	Axis Z (+) Signal / Power	White	Axis 1 (+) Signal / Power
Black	(-) Common / Grid	Black	(-) Common / Grid



Specifications	Standard	Metric
Part Number	AC230	M/AC230
Sensitivity ($\pm 5\%$)	100 mV/g	
Frequency Response ($\pm 3\text{dB}$)	36-600,000 CPM	0,6-10000 Hz
Frequency Response ($\pm 10\%$)	60-390,000 CPM	1,0-6500 Hz
Frequency Response ($\pm 5\%$)	480-330,000 CPM	8,0-5500 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	27 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁹ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth (AC230-2D/3D)	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 (non-integral)	4 Pin	
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Ordering Information

Standard	AC230-1D (1/4-28 Captive Bolt) Stock Product	AC230-2D - / (1/4-28 Captive Bolt) Build To Order	AC230-3D - / (1/4-28 Captive Bolt) Build To Order
Metric	M/AC230-1D (M6x1 Captive Bolt) Stock Product	M/AC230-2D - / (M6x1 Captive Bolt) Build To Order	M/AC230-3D - / (M6x1 Captive Bolt) Build To Order

Cable Termination Options:



Backed by our Unconditional Lifetime Warranty

www.ctconline.com | 800-999-5290



VIBRATION ANALYSIS HARDWARE