

AC115 Series

Low Cost Triaxial Accelerometer, Connector/Cable, 100 mV/g

SECTION 1 - 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

Low Cost Triaxial Sensor
Speeds Data Collection

- $\pm 15\%$ Sensitivity
- Monitor 3 Channels of Data Simultaneously
- Affordably Priced

AC115-1D

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

ALIGNMENT GUIDE (PIN)

AC115-2D

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

AC115-3D

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	AC115	M/AC115
Sensitivity ($\pm 15\%$)	100 mV/g	
Frequency Response ($\pm 3dB$)	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	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 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Electromagnetic Sensitivity		CE
Sealing		IP68
Submersible Depth (AC115-2D/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, J Connector
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	AC115-1D	AC115-2D - /	AC115-3D - /
	(1/4-28 Captive Bolt) Stock Product	(1/4-28 Captive Bolt) Build To Order	(1/4-28 Captive Bolt) Build To Order
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC115-1D	M/AC115-2D - /	M/AC115-3D - /
	(M6x1 Captive Bolt) Stock Product	(M6x1 Captive Bolt) Build To Order	(M6x1 Captive Bolt) Build To Order
		(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: E3C



F3C



L



Z



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AC132 Series

Low Cost Triaxial Accelerometer, Connector, 10 mV/g

SECTION I - VIBRATION SENSORS Accelerometers

Actual Product Size Shown



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

Product Features

Modal/ODS Triaxial Sensor

Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

- Premium 10 mV/g, $\pm 10\%$ Sensitivity
- Phase conforms to Cartesian Coordinate System (Right Hand Rule)

AC132-1D

4 Pin Connector

Connector Pin		Azima DJI Compatible	
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

AC132-2D

Integral Cable

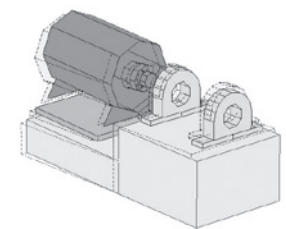
Conductor		Azima DJI Compatible	
Red	Axis Y (+) Signal/Power	Red	Axis 3 (+) Signal/Power
Green	Axis X (+) Signal/Power	Green	Axis 2 (+) Signal/Power
White	Axis Z (+) Signal/Power	White	Axis 1 (+) Signal/Power
Black	(-) Common/Grid	Black	(-) Common/Grid

AC132-3D

Armored Integral Cable

Conductor		Azima DJI Compatible	
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

Operating Deflection Shape created from vibration and phase measurements.



Specifications	Standard	Metric
Part Number	AC132	M/AC132
Sensitivity ($\pm 10\%$)	10 mV/g	
Frequency Response ($\pm 3\text{dB}$)	60-480,000 CPM	1,0-8000 Hz
Frequency Response ($\pm 10\%$)	90-300,000 CPM	1,5-5000 Hz
Dynamic Range	± 500 g, peak	
Electrical		
Settling Time	<2 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	100 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

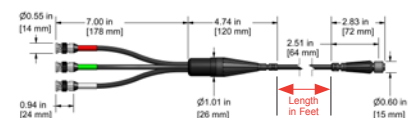
Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC132-2D/3D)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	4 Pin	
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	AC132-1D (1/4-28 Captive Bolt)	AC132-2D - / (1/4-28 Captive Bolt)	AC132-3D - / (1/4-28 Captive Bolt)
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
	(length in feet) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

CTC multi-conductor cable

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



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AC230 Series

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

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

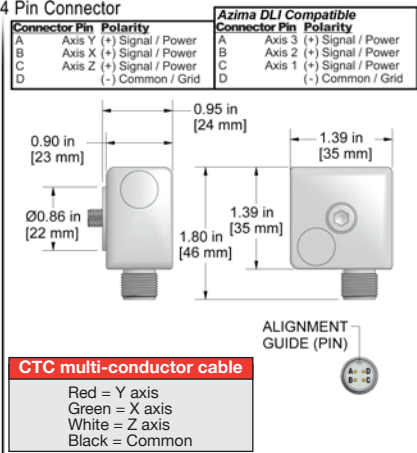
- Premium ±5% Sensitivity
- Reduces Data Collection Time
- 1/4-28 or M6x1 Captive Bolt

Actual Product Size Shown



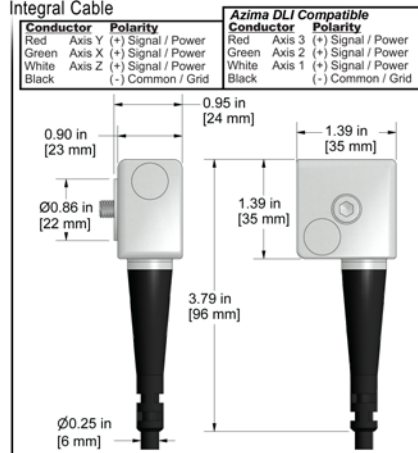
AC230-1D

4 Pin Connector



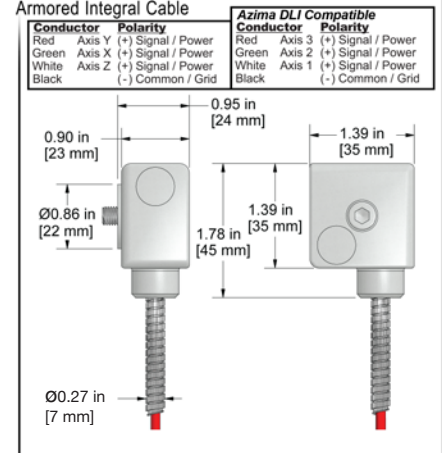
AC230-2D

Integral Cable



AC230-3D

Armored Integral Cable



Specifications	Standard	Metric
Part Number	AC230	M/AC230
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz
Frequency Response (±10%)	60-390,000 CPM	1,0-6500 Hz
Frequency Response (±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 µg/√Hz	
Spectral Noise @ 100 Hz	6.5 µg/√Hz	
Spectral Noise @ 1000 Hz	2.5 µg/√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
Electromagnetic Sensitivity	CE	
Sealing	IP68	
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	
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)	AC230-2D - / (1/4-28 Captive Bolt)	AC230-3D - / (1/4-28 Captive Bolt)
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC230-1D (M6x1 Captive Bolt)	M/AC230-2D - / (M6x1 Captive Bolt)	M/AC230-3D - / (M6x1 Captive Bolt)
	(length in meters) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: E3C F3C L Z



VIBRATION ANALYSIS HARDWARE

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SECTION 1 - VIBRATION SENSORS
Accelerometers

AC232 Series

Premium Triaxial Accelerometer, Connector, 10 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

Modal/ODS Triaxial Sensor

Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

- Premium 10 mV/g, $\pm 5\%$ Sensitivity
- Phase conforms to Cartesian Coordinate System (Right Hand Rule)

AC232-1D

4 Pin Connector

Azima DJI Compatible		Azima DJI Compatible	
Connector Pin	Polarity	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

AC232-2D

Integral Cable

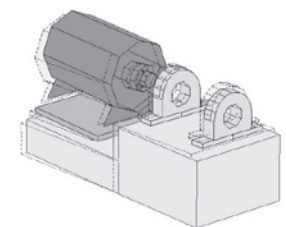
Azima DJI Compatible		Azima DJI Compatible	
Conductor	Polarity	Conductor	Polarity
Red	Axis Y (+) Signal/Power	Red	Axis 3 (+) Signal/Power
Green	Axis X (+) Signal/Power	Green	Axis 2 (+) Signal/Power
White	Axis Z (+) Signal/Power	White	Axis 1 (+) Signal/Power
Black	(-) Common/Grid	Black	(-) Common/Grid

AC232-3D

Armored Integral Cable

Azima DJI Compatible		Azima DJI Compatible	
Conductor	Polarity	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

Operating Deflection Shape created from vibration and phase measurements.



Specifications	Standard	Metric
Part Number	AC232	M/AC232
Sensitivity ($\pm 5\%$)	10 mV/g	
Frequency Response ($\pm 3\text{dB}$)	60-600,000 CPM	1,0-10000 Hz
Frequency Response ($\pm 10\%$)	90-420,000 CPM	1,5-7000 Hz
Frequency Response ($\pm 5\%$)	180-360,000 CPM	3,0-6000 Hz
Dynamic Range	± 500 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	100 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

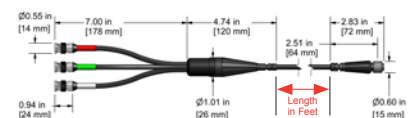
Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC232-2D/3D)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	4 Pin	
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	AC232-1D (1/4-28 Captive Bolt)	AC232-2D - / (1/4-28 Captive Bolt)	AC232-3D - / (1/4-28 Captive Bolt)
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
	Stock Product	Build To Order	Build To Order
Metric	M/AC232-1D (M6x1 Captive Bolt)	M/AC232-2D - / (M6x1 Captive Bolt)	M/AC232-3D - / (M6x1 Captive Bolt)
	(length in meters) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)
	Stock Product	Build To Order	Build To Order

CTC multi-conductor cable

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



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AC360 Series

Modal/ODS Triaxial Accelerometer, 100 mV/g, ± 5%

Actual Product Size Shown



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

Product Features

Modal/ODS Triaxial Sensor

Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

- Premium 100 mV/g, ±5% Sensitivity
- Phase conforms to Cartesian Coordinate System (Right Hand Rule)

AC360-1D

4 Pin Connector

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

ALIGNMENT GUIDE (PIN)

AC360-2D

Integral Cable

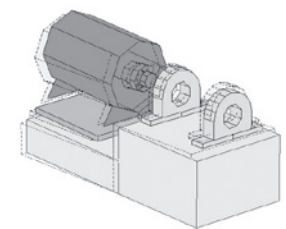
Azima DJI Compatible	
Conductor	Polarity
Red Axis Y	(+) Signal/Power
Green Axis X	(+) Signal/Power
White Axis Z	(+) Signal/Power
Black	(-) Common/Grid

AC360-3D

Armored Integral Cable

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

Operating Deflection Shape created from vibration and phase measurements.



Specifications	Standard	Metric
Part Number	AC360	M/AC360
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz
Frequency Response (±10%)	60-390,000 CPM	1,0-6500 Hz
Frequency Response (±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 µg/√Hz	
Spectral Noise @ 100 Hz	6.5 µg/√Hz	
Spectral Noise @ 1000 Hz	2.5 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

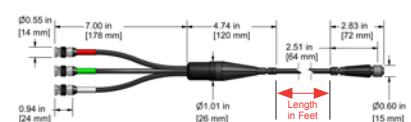
Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC360-2D/3D)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	4 Pin	
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	AC360-1D (1/4-28 Captive Bolt)	AC360-2D - / (1/4-28 Captive Bolt)	AC360-3D - / (1/4-28 Captive Bolt)
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC360-1D (M6x1 Captive Bolt)	M/AC360-2D - / (M6x1 Captive Bolt)	M/AC360-3D - / (M6x1 Captive Bolt)
	(length in meters) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

CTC multi-conductor cable

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



Cable Termination Options: E3C

F3C

L

Z

