AC115 Series

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

Actual Product Size Shown

CE

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

Product Features

Low Cost Triaxial Sensor

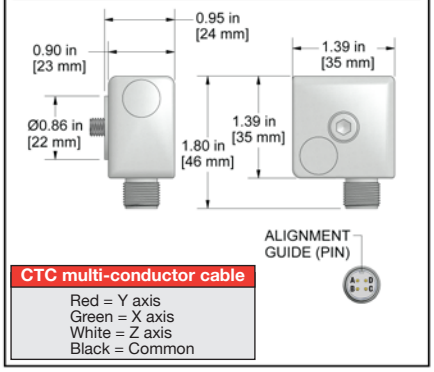
Speeds Data Collection

- *±15% Sensitivity*
- *Monitor 3 Channels of Data Simultaneously*
- *Affordably Priced*

AC115-1D

4 Pin Connector

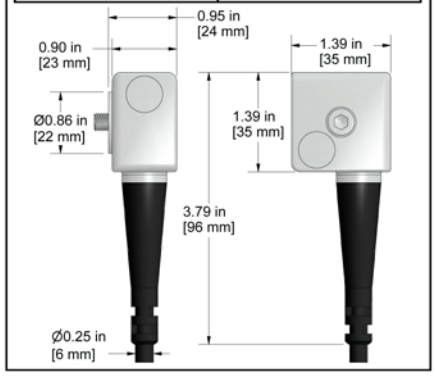
Connector Pin	Polarity	Azima DLI Compatible Connector Pin	Polarity
A	Axis Y (+) Signal / Power	A	Axis 3 (+) Signal / Power
B	Axis X (+) Signal / Power	B	Axis 2 (+) Signal / Power
C	Axis Z (+) Signal / Power	C	Axis 1 (+) Signal / Power
D	(-) Common / Grid	D	(-) Common / Grid



AC115-2D

Integral Cable

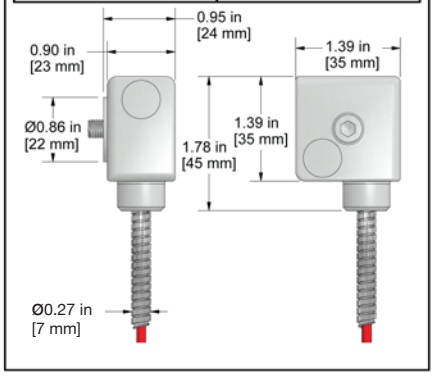
Conductor	Polarity	Azima DLI Compatible Conductor	Polarity
Red	Axis Y (+) Signal / Power	Red	Axis 3 (+) Signal / Power
Green	Axis X (+) Signal / Power	Green	Axis 2 (+) Signal / Power
White	Axis Z (+) Signal / Power	White	Axis 1 (+) Signal / Power
Black	(-) Common / Grid	Black	(-) Common / Grid



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 (±15%)	100 mV/g	
Frequency Response (±3dB)	60-390,000 CPM	1,0-6500 Hz
Dynamic Range	± 50 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source	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	-58 to 250°F	-50 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
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 (1/4-28 Captive Bolt)	AC115-2D - / [ ][ ][ ] - [ ] (1/4-28 Captive Bolt) (length in feet) (termination)	AC115-3D - / [ ][ ][ ] / [ ][ ][ ] - [ ] (1/4-28 Captive Bolt) (maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC115-1D (M6x1 Captive Bolt)	M/AC115-2D - / [ ][ ][ ] - [ ] (M6x1 Captive Bolt) (length in feet) (termination) [ ][ ][ ] M - [ ] (length in meters) (termination)	M/AC115-3D - / [ ][ ][ ] / [ ][ ][ ] - [ ] (M6x1 Captive Bolt) (maximum armor length 100 ft.) (cable length in feet) (termination) [ ][ ][ ] M / [ ][ ][ ] M - [ ] (maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: L  Z

Note: CTC multi-conductor cable: Red = Y axis, Green = X axis White = Z axis, Black = Common

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

Actual Product Size Shown

CE

Must Use J4A or J4C 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*

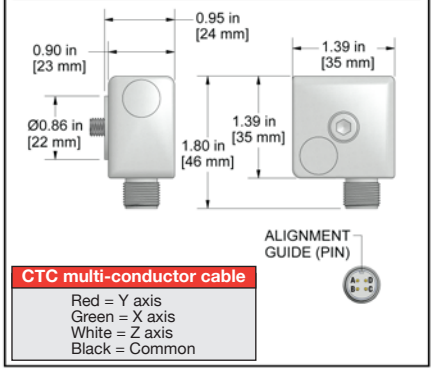
AC230-1D

4 Pin Connector

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

Azima DLI Compatible

Connector Pin	Polarity
A	Axis 3 (+) Signal / Power
B	Axis 2 (+) Signal / Power
C	Axis 1 (+) Signal / Power
D	(-) Common / Grid



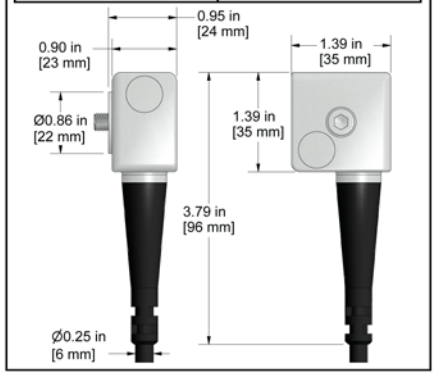
AC230-2D

Integral Cable

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

Azima DLI Compatible

Conductor	Polarity
Red	Axis 3 (+) Signal / Power
Green	Axis 2 (+) Signal / Power
White	Axis 1 (+) Signal / Power
Black	(-) Common / Grid



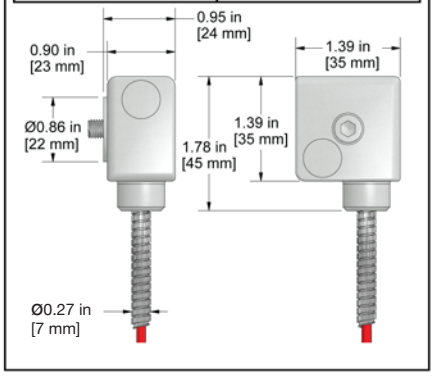
AC230-3D

Armored Integral Cable

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

Azima DLI Compatible

Conductor	Polarity
Red	Axis 3 (+) Signal / Power
Green	Axis 2 (+) Signal / Power
White	Axis 1 (+) Signal / Power
Black	(-) Common / Grid



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	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	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	
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) - / ☐☐☐ - ☐
(length in feet) (termination)

AC230-3D (1/4-28 Captive Bolt) - / ☐☐☐ / ☐☐☐ - ☐
(maximum armor length 100 ft.) (cable length in feet) (termination)

Metric

M/AC230-1D (M6x1 Captive Bolt)

M/AC230-2D (M6x1 Captive Bolt) - / ☐☐☐ - ☐
(length in feet) (termination)
☐☐☐M - ☐
(length in meters) (termination)

M/AC230-3D (M6x1 Captive Bolt) - / ☐☐☐ / ☐☐☐ - ☐
(maximum armor length 100 ft.) (cable length in feet) (termination)
☐☐☐M / ☐☐☐M - ☐
(maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: L  Z

Note: CTC multi-conductor cable: Red = Y axis, Green = X axis
White = Z axis, Black = Common

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

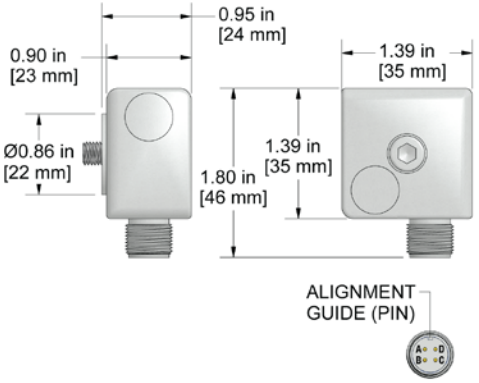
Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

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

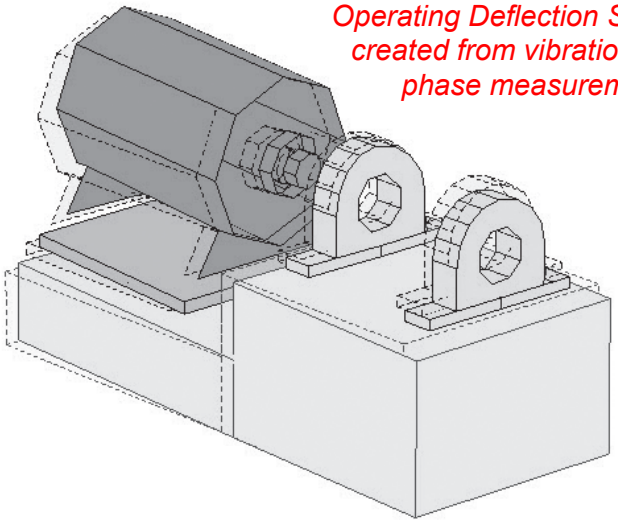
AC360-1D

4 Pin Connector

Pin	Alpha Axis	Numeric Axis	Polarity	Heat Shrink Color
A	Y	3	+ Sig/Pwr	Red
B	X	2	+ Sig/Pwr	Green
C	Z	1	+ Sig/Pwr	White
D			- Com/Gnd	



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	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	Welded, Hermetic	
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

		Part/Cable Number	Length in Feet
Standard	AC360-1D (1/4-28 Captive Bolt)	CB105 - J4C - 006 - F3C	6
Metric	M/AC360-1D (M6x1 Captive Bolt)	CB105 - J4C - 010 - F3C	10
		CB105 - J4C - 015 - F3C	15
		CB105 - J4C - 020 - F3C	20
		CB105 - J4C - 030 - F3C	30