

AC232 Series



VIBRATION ANALYSIS HARDWARE

Premium Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 10 mV/g, ±5%



Product Features

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

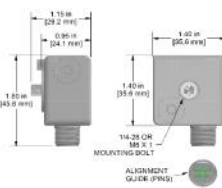
Phase conforms to Cartesian Coordinate System (Right Hand Rule)

- ▶ High Performance Triaxial Sensor with High End Frequency Response of 10 kHz (+3dB)
- ▶ Popularly used for Modal Analysis and ODS (Operating Deflection Shape)
- ▶ Compatible with CTC J Series Mini-MIL Connectors

AC232-1D

4 Pin Connector

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

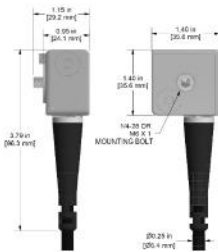


Stock Product

AC232-2D

CB105 Integral Cable

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

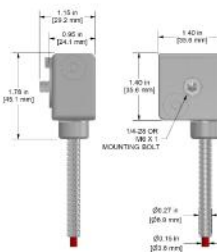


Built To Order

AC232-3D

CB218 Armored Integral Cable

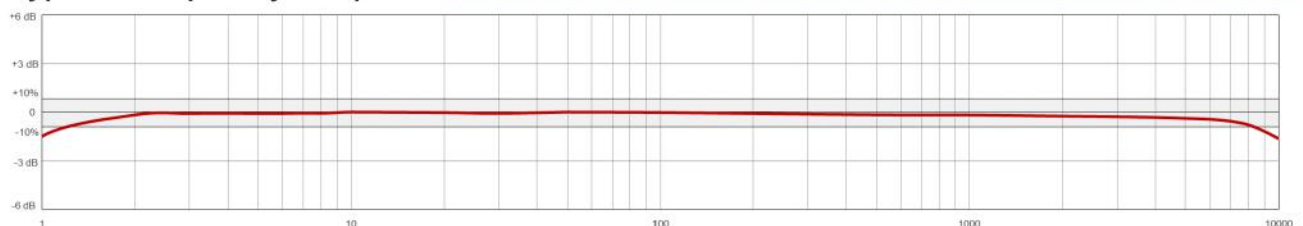
Conductor	Polarity
Red (Axis Y/3)	(+) Signal/Power
Green (Axis X/2)	(+) Signal/Power
White (Axis Y/1)	(+) Signal/Power
Black	(-) Common/Grid



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC232	M/AC232	Environmental		
Sensitivity (±5%)	10 mV/g		Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1.0-10000 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±10%)	90-420,000 CPM	1.5-7000 Hz	Sealing		Welded, Hermetic
Frequency Response (±5%)	180-360,000 CPM	3.0-6000 Hz	Submersible Depth	200 ft.	60 m
Dynamic Range	± 500 g, peak		SIL Rating		SIL 2
Electrical			Physical		
Settling Time	<2.5 seconds		Sensing Element		PZT Ceramic
Voltage Source (IEPE)	18-30 VDC		Sensing Structure		Shear Mode
Constant Current Excitation	2-10 mA		Weight	7.1 oz	200 grams
Spectral Noise @ 10 Hz	100 µg/√Hz		Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz	19 µg/√Hz		Connector (Non-Integral)		4 Pin J Connector
Spectral Noise @ 1000 Hz	5 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance	<100 ohm		Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation	>10 ⁸ ohm		Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

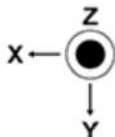
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TRCA330 Series



VIBRATION ANALYSIS HARDWARE

Miniature Industrial Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, 10 mV/g, ±10%



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

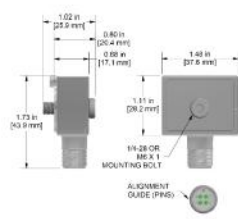
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ High Performance Triaxial Sensor with High End Frequency Response of 15 kHz (+3dB)
- ▶ Low Profile, Side Exit Case is Ideally Suited for Route Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

TRCA330

4 Pin Mini-MIL Connector

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

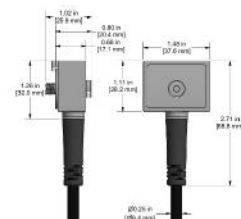


Stock Product

TRCA430

CB105 Cable

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

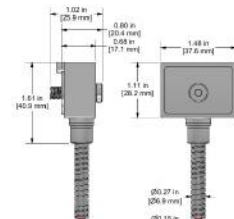


Built To Order

TRCA530

CB218 Armored Integral Cable

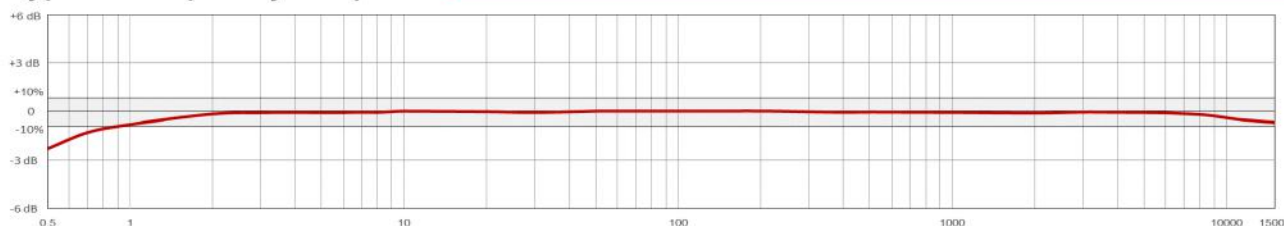
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/Grid



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TRCA330	M/TRCA330	Environmental		
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response (±10%)	60-480,000 CPM	1 Hz-8 kHz	Electromagnetic Sensitivity	CE	
Frequency Response (±5%)	480-330,000 CPM	8 Hz-5.5 kHz	Sealing	Welded, Hermetic	
Dynamic Range	±500g, peak		Submersible Depth	200 ft.	60 m
Electrical			SIL Rating	SIL 2	
Settling Time	<2.5 Seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	100 µg/√Hz		Weight	3.9 oz	110 grams
Spectral Noise @ 100 Hz	19 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	5 µg/√Hz		Connector (Non-Integral)	4 Pin Mini-MIL	
Output Impedance	<100 ohm		Resonant Frequency	2,640,000 CPM	44 kHz
Bias Output Voltage	10-14 VDC		Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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AC132 Series

Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 10 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

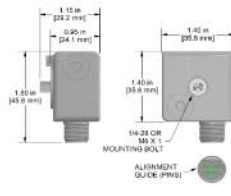
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Popularly used for Modal Analysis and ODS (Operating Deflection Shape)
- ▶ Cost Effective, Rugged Triaxial Sensor Ideally Suited for a Wide Variety of Industrial Applications
- ▶ Compatible with CTC J Series Mini-MIL Connectors

AC132-1D

4 Pin Connector

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

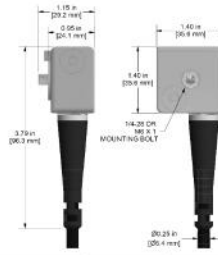


Stock Product

AC132-2D

CB105 Integral Cable

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

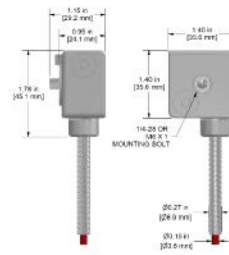


Built To Order

AC132-3D

CB218 Armored Integral Cable

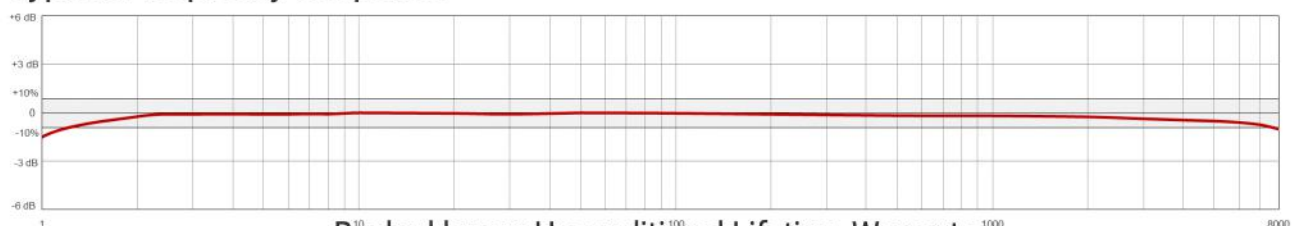
Conductor	Polarity
Red (Axis Y/3)	(+) Signal/Power
Green (Axis X/2)	(+) Signal/Power
White (Axis Z/1)	(+) Signal/Power
Black	(-) Common/Grid



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC132	M/AC132	Environmental		
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-480,000 CPM	1,0-8000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±10%)	90-300,000 CPM	1,5-5000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 500 g, peak		Submersible Depth	200 ft.	60 m
Electrical			SIL Rating	SIL 2	
Settling Time	<2 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	100 µg/√Hz		Weight	7.1 oz	200 grams
Spectral Noise @ 100 Hz	19 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	5 µg/√Hz		Connector (Non-Integral)	4 Pin J Connector	
Output Impedance	<100 ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Case Isolation	> 10 ⁸		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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