

TXEA333-HT Series

Low Cost, High Temperature Triaxial Accelerometer, Side Exit 4 Pin Connector, 100 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

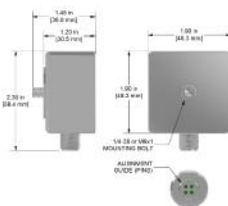
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Resistant to Temperatures Up to 325°F (162°C)
- ▶ Mini-MIL Connector Exit Option Compatible with J4R and VJ4R Connectors
- ▶ M12 Connector Exit Option Compatible with M4R Connector

TXEA233-HT

4 Pin M12 Connector

| Connector Pin | Polarity |
|---------------|------------------|
| 1 (Axis Y) | (+) Signal/Power |
| 2 (Axis X) | (+) Signal/Power |
| 3 (Axis Z) | (+) Signal/Power |
| 4 | (-) Common |

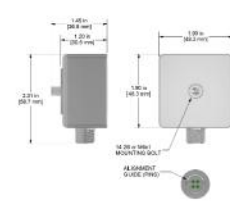


Stock Product

TXEA333-HT

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 |

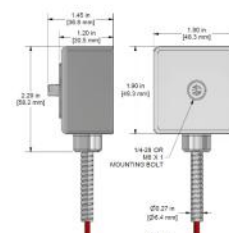


Stock Product

TXEA533-HT

CBZ18 Armored Integral Cable

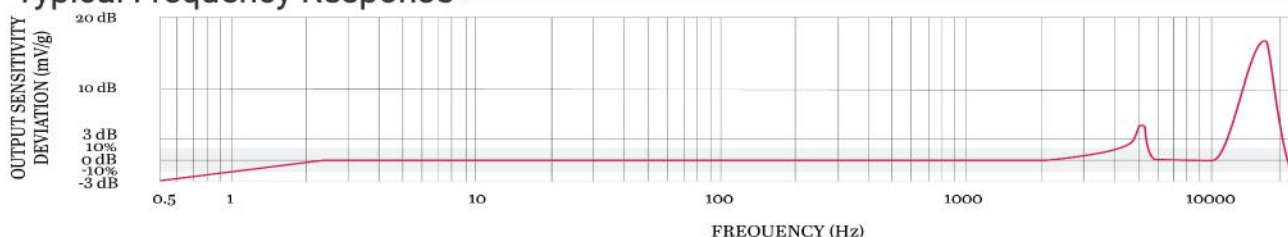
| Conductor | Polarity |
|----------------|------------------|
| Red (Axis Y) | (+) Signal/Power |
| Green (Axis X) | (+) Signal/Power |
| White (Axis Z) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|---|-------------------------------------|-------------------|-----------------------------|-----------------------------|-------------------|
| Part Number | TXEA333-HT | M/TXEA333-HT | Environmental | | |
| Sensitivity ($\pm 15\%$) | 100 mV/g | | Operating Temperature Range | -58 to 325°F | -50 to 162°C |
| Frequency Response ($\pm 3\text{dB}$) | 30 to 270,000 CPM | 0.5 Hz to 4.5 kHz | Maximum Shock Protection | 5,000 g, peak | |
| Frequency Response ($\pm 10\%$) | 120 to 210,000 CPM | 2 Hz to 3 kHz | Electromagnetic Sensitivity | CE | |
| Dynamic Range | ± 50 in/sec pk. | | Sealing | Welded, Hermetic | |
| Electrical | | | Submersible Depth | 200 ft. | 60 m |
| Settling Time | <2 Seconds | | SIL Rating | SIL 2 | |
| Voltage Source (IEPE) | 18-30 VDC | | Physical | | |
| Constant Current Excitation | 2-10 mA | | Sensing Element | PZT Ceramic | |
| Spectral Noise @ 10 Hz | 1.7 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 100 Hz | 0.2 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Weight | 13.4 oz | 380 grams |
| Spectral Noise @ 1000 Hz | 0.12 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Case Material | 316L Stainless Steel | |
| Output Impedance | <100 ohm | | Connector (Non-Integral) | 4 Pin Mini-MIL or 4 Pin M12 | |
| Bias Output Voltage | 10-14 VDC | | Resonant Frequency | 720,000 CPM | 12 kHz |
| Case Isolation | > 10^8 ohm | | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| | | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

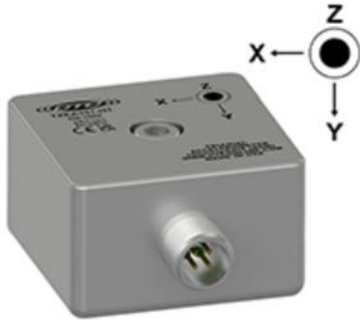
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TXEA331-HT Series

Premium, High Temperature Triaxial Accelerometer, 100 mV/g, Side Exit 4 Pin Connector, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

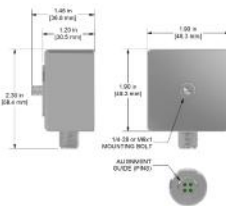
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Resistant to Temperatures Up to 325°F (162°C)
- ▶ Mini-MIL Connector Exit Option Compatible with J4R and VJ4R Connectors
- ▶ M12 Connector Exit Option Compatible with M4R Connector

TXEA231-HT

4 Pin M12 Connector

| Connector Pin | Polarity |
|---------------|------------------|
| 1 (Axis Y) | (+) Signal/Power |
| 2 (Axis X) | (+) Signal/Power |
| 3 (Axis Z) | (+) Signal/Power |
| 4 | (-) Common |

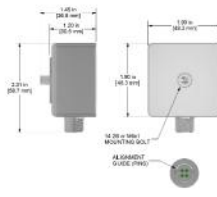


Stock Product

TXEA331-HT

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 |

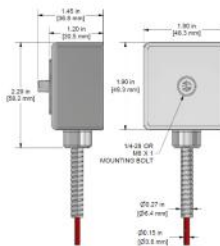


Stock Product

TXEA531-HT

CBZ18 Armored Integral Cable

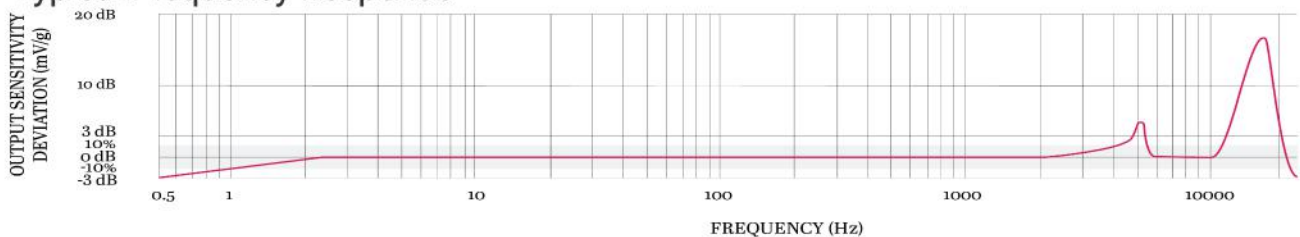
| Conductor | Polarity |
|----------------|------------------|
| Red (Axis Y) | (+) Signal/Power |
| Green (Axis X) | (+) Signal/Power |
| White (Axis Z) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|-------------------|-----------------------------|-----------------------------|-------------------|
| Part Number | TXEA331-HT | M/TXEA331-HT | Environmental | | |
| Sensitivity (±5%) | 100 mV/g | | Operating Temperature Range | -58 to 325°F | -50 to 162°C |
| Frequency Response (±3dB) | 30 to 270,000 CPM | 0.5 Hz to 4.5 kHz | Maximum Shock Protection | 5,000 g, peak | |
| Frequency Response (±10%) | 120 to 210,000 CPM | 2 Hz to 3 kHz | Electromagnetic Sensitivity | CE | |
| Dynamic Range | ±50 in/sec pk. | | Sealing | Welded, Hermetic | |
| 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 | 8 µg/√Hz | | Weight | 13.4 oz | 380 grams |
| Spectral Noise @ 100 Hz | .82 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 1000 Hz | .3 µg/√Hz | | Connector (Non-Integral) | 4 Pin Mini-MIL or 4 Pin M12 | |
| Output Impedance | <100 ohm | | Resonant Frequency | 720,000 CPM | 12 kHz |
| Bias Output Voltage | 10-14 VDC | | Mounting Torque | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm |
| Case Isolation | >10 ⁸ ohm | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

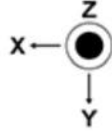
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TREA331 Series



VIBRATION ANALYSIS HARDWARE

Low Cost Miniature Industrial Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, 100 mV/g, ±15%



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

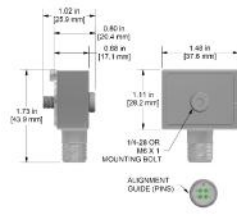
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Cost Effective, High Performance Triaxial Sensor
- ▶ Low Profile, Side Exit Case is Ideally Suited for Route Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

TREA331

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 |

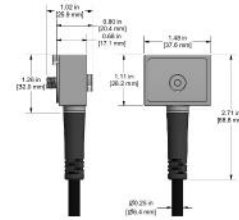


Stock Product

TREA431

CB105 Integral Cable

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

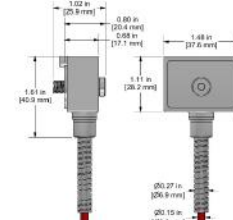


Built To Order

TREA531

CB218 Armored Integral Cable

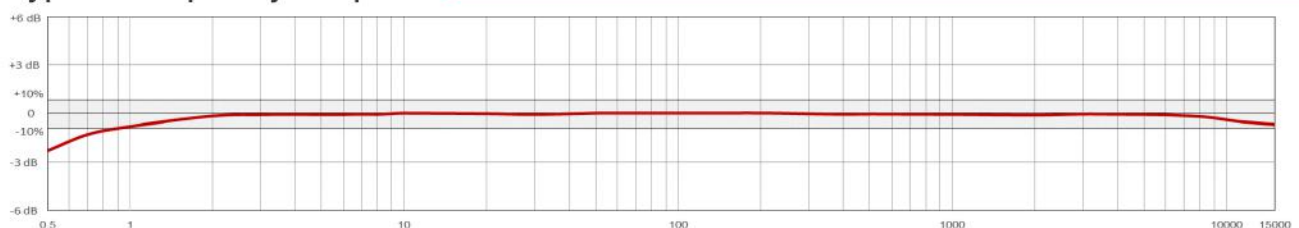
| Conductor | Polarity |
|----------------|------------------|
| Red (Axis Y) | (+) Signal/Power |
| Green (Axis X) | (+) Signal/Power |
| White (Axis Z) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|--|----------------|-----------------------------|----------------------|-------------------|
| Part Number | TREA331 | M/TREA331 | Environmental | | |
| Sensitivity (±15%) | 100 mV/g | | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 30-600,000 CPM | 0.5 Hz - 10kHz | Maximum Shock Protection | 10,000g peak | |
| Dynamic Range | ± 80g, peak *Vsource ≥ 22V, 12Vbias | | Electromagnetic Sensitivity | CE | |
| Electrical | | | Sealing | Welded, Hermetic | |
| Settling Time | <2.5 seconds | | Submersible Depth | 200 ft. | 60 m |
| Voltage Source (IEPE) | 18-30 VDC | | SIL Rating | SIL 2 | |
| Constant Current Excitation | 2-10 mA | | Physical | | |
| Spectral Noise @ 10 Hz | 30 µg/√Hz | | Sensing Element | PZT Ceramic | |
| Spectral Noise @ 100 Hz | 4 µg/√Hz | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 1000 Hz | 2 µg/√Hz | | Weight | 3.9 oz | 110 grams |
| Output Impedance | <100 ohm | | Case Material | 316L Stainless Steel | |
| Bias Output Voltage | 10-14 VDC | | Connector (Non-Integral) | 4 Pin Mini-MIL | |
| Case Isolation | >10 ⁸ ohm | | Resonant Frequency | 2,640,000 CPM | 44 kHz |
| | | | Mounting Torque | 1 to 2 ft. lbs | 1,4 to 2,7 Nm |
| | | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response



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TREA330 Series

Premium Miniature Industrial Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

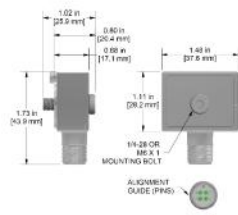
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ 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

TREA330

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

TREA430

CB105 Integral Cable

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

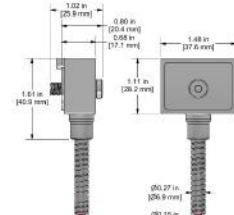


Built To Order

TREA530

CB218 Armored Integral Cable

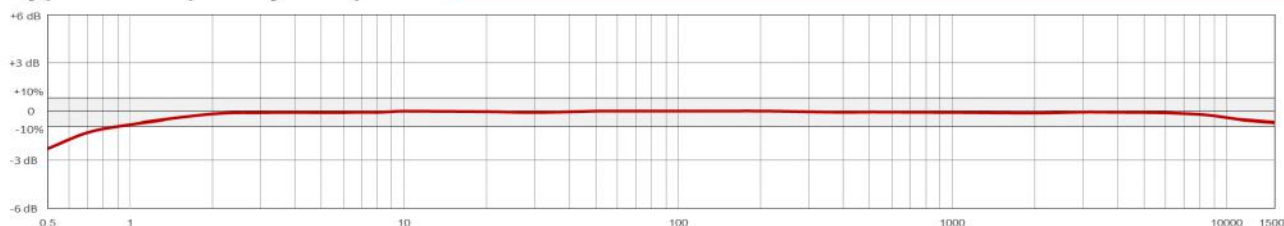
| Conductor | Polarity |
|----------------|------------------|
| Red (Axis Y) | (+) Signal/Power |
| Green (Axis X) | (+) Signal/Power |
| White (Axis Z) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|-------------------------|---------------|-----------------------------|----------------------|-------------------|
| Part Number | TREA330 | M/TREA330 | Environmental | | |
| Sensitivity (±5%) | 100 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 | ± 80g, peak | | Submersible Depth | 200 ft. | 60 m |
| | *Vsource ≥ 22V, 12Vbias | | 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 | 3.9 oz | 110 grams |
| Spectral Noise @ 10 Hz | 30 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 100 Hz | 4 µg/√Hz | | Connector (Non-Integral) | 4 Pin Mini-MIL | |
| Spectral Noise @ 1000 Hz | 2 µg/√Hz | | Resonant Frequency | 2,640,000 CPM | 44 kHz |
| 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



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TCEB333 Series

Low Cost Miniature Industrial Circular Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



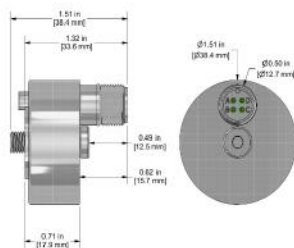
Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Cost Effective, High Performance Triaxial Sensor
- ▶ Low Profile, Top Exit Case is Ideally Suited for Route Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

TCEB333
4 Pin Connector



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|--------------------|----------------------|-----------------------------|--------------------------------|----------------------|
| Part Number | TCEB333 | M/TCEB333 | Environmental | | |
| Sensitivity (±15%) | | 100 mV/g | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 120 to 720,000 CPM | 2 Hz to 12 kHz | Maximum Shock Protection | | 10,000 g, peak |
| Frequency Response (±10%) | 240 to 600,000 CPM | 4 Hz to 10 kHz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | 50 g | Sealing | | Welded, Hermetic |
| 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 | | 30 µg/√Hz | Weight | 4.8 oz | 136 grams |
| Spectral Noise @ 100 Hz | | 4 µg/√Hz | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 1000 Hz | | 2 µg/√Hz | Connector (Non-Integral) | | 4 Pin Mini-MIL |
| Output Impedance | | <100 ohm | Resonant Frequency | 1,020,000 CPM (±12,000 CPM) | 17 kHz (±2kHz) |
| 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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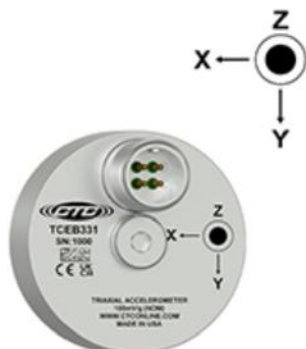
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TCEB331 Series

Premium Miniature Industrial Circular Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



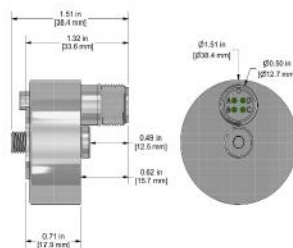
Product Features

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 12 kHz (+3dB)
- ▶ Low Profile Top Exit Case is Ideally Suited for Route Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

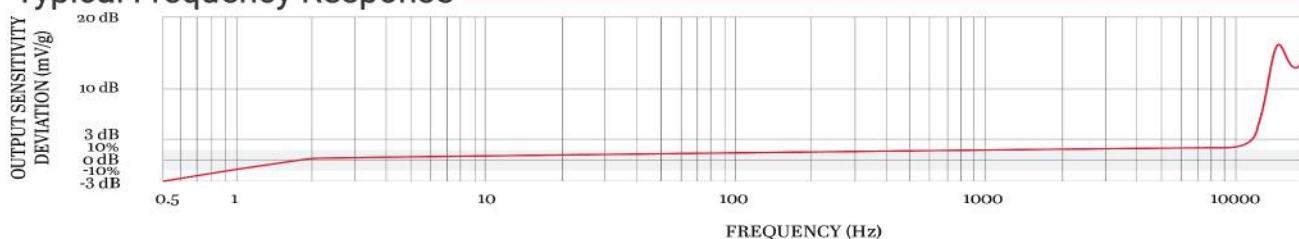
TCEB331
4 Pin Connector



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|--------------------|----------------------|-----------------------------|---------------------------------|----------------------|
| Part Number | TCEB331 | M/TCEB331 | Environmental | | |
| Sensitivity (±5%) | | 100 mV/g | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 120 to 720,000 CPM | 2 Hz to 12 kHz | Maximum Shock Protection | | 10,000 g, peak |
| Frequency Response (±10%) | 240 to 600,000 CPM | 4 Hz to 10 kHz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | 50 g | Sealing | | Welded, Hermetic |
| 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 | | 30 µg/√Hz | Weight | 4.8 oz | 136 grams |
| Spectral Noise @ 100 Hz | | 4 µg/√Hz | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 1000 Hz | | 2 µg/√Hz | Connector (Non-Integral) | | 4 Pin Mini-MIL |
| Output Impedance | | <100 ohm | Resonant Frequency | 1,020,000 CPM (± 12,000 CPM) | 17 kHz (±2kHz) |
| 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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AC365 Series



VIBRATION ANALYSIS HARDWARE

Premium Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 100 mV/g, ±5%



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

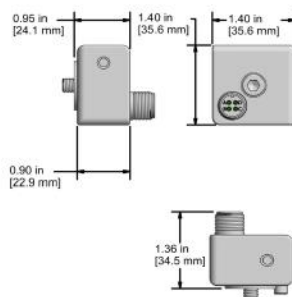
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

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

AC365-1D

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

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|-----------------|----------------------|-----------------------------|---------------------|--------------------------|
| Part Number | AC365 | M/AC365 | Environmental | | |
| Sensitivity (±5%) | 100 mV/g | | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 36-600,000 CPM | 0,6-10000 Hz | Electromagnetic Sensitivity | | CE |
| Frequency Response (±10%) | 60-390,000 CPM | 1,0-6500 Hz | Sealing | | IP68 |
| Frequency Response (±5%) | 480-330,000 CPM | 8,0-5500 Hz | SIL Rating | | SIL 2 |
| Dynamic Range | | ± 50 g, peak | Physical | | |
| Electrical | | | Sensing Element | | PZT Ceramic |
| Settling Time | | <2.5 seconds | Sensing Structure | | Shear Mode |
| Voltage Source (IEPE) | | 18-30 VDC | Weight | 7.1 oz | 200 grams |
| Constant Current Excitation | | 2-10 mA | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 10 Hz | | 27 µg/√Hz | Mounting Thread | | 1/4-28 Blind Tapped Hole |
| Spectral Noise @ 100 Hz | | 6.5 µg/√Hz | Connector (Non-Integral) | | 4 Pin Mini MIL Connector |
| Spectral Noise @ 1000 Hz | | 2.5 µg/√Hz | Mounting Torque | 1 to 2 ft. lbs | 1,4 to 2,7 Nm |
| Output Impedance | | <100 ohm | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| Bias Output Voltage | | 10-14 VDC | Calibration Certificate | | CA10 |
| Case Isolation | | >10 ⁸ ohm | | | |

Typical Frequency Response



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AC360 Series

Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

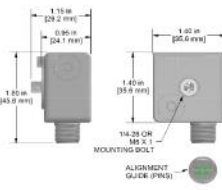
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

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

AC360-1D

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 |

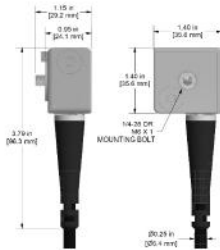


Stock Product

AC360-2D

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 |

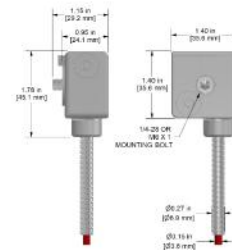


Built To Order

AC360-3D

CB218 Armored Integral Cable

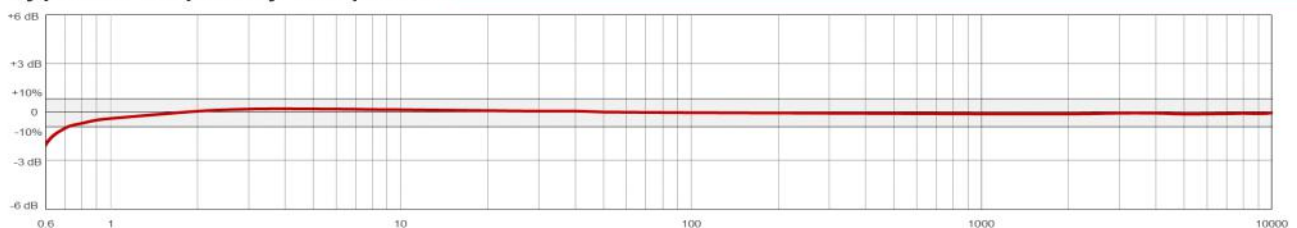
| Conductor | Polarity |
|------------------|------------------|
| Red (Axis Y/3) | (+) Signal/Power |
| Green (Axis X/2) | (+) Signal/Power |
| White (Axis Z/1) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|-----------------|----------------------|-----------------------------|---------------------|----------------------|
| Part Number | AC360 | M/AC360 | Environmental | | |
| Sensitivity (±5%) | | 100 mV/g | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 36-600,000 CPM | 0,6-10000 Hz | Electromagnetic Sensitivity | | CE |
| Frequency Response (±10%) | 60-390,000 CPM | 1,0-6500 Hz | Sealing | | Welded, Hermetic |
| Frequency Response (±5%) | 480-330,000 CPM | 8,0-5500 Hz | Submersible Depth | 200 ft. | 60 m |
| Dynamic Range | | ± 50 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 | | 27 µg/√Hz | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 100 Hz | | 6.5 µg/√Hz | Connector (Non-Integral) | | 4 Pin J Connector |
| Spectral Noise @ 1000 Hz | | 2.5 µg/√Hz | Mounting Torque | 1 to 2 ft. lbs. | 1,4 to 2,7 Nm |
| Output Impedance | | <100 ohm | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| Bias Output Voltage | | 10-14 VDC | Calibration Certificate | | CA10 |
| Case Isolation | | >10 ⁸ ohm | | | |

Typical Frequency Response



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AC230 Series

Premium Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

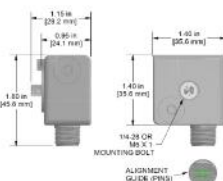
Collect 3 Channels of Data Simultaneously for Faster Data Collection

- ▶ High Performance Triaxial Sensor with High End Frequency Response of 10 kHz (+3dB)
- ▶ Compatible with CTC J Series Mini-MIL Connectors

AC230-1D

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 |

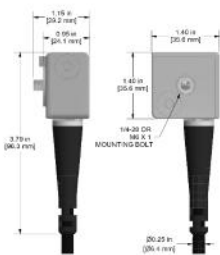


Stock Product

AC230-2D

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 |

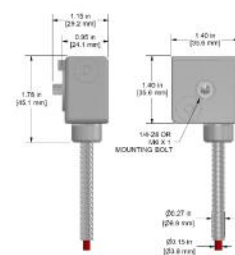


Built To Order

AC230-3D

CB218 Armored Integral Cable

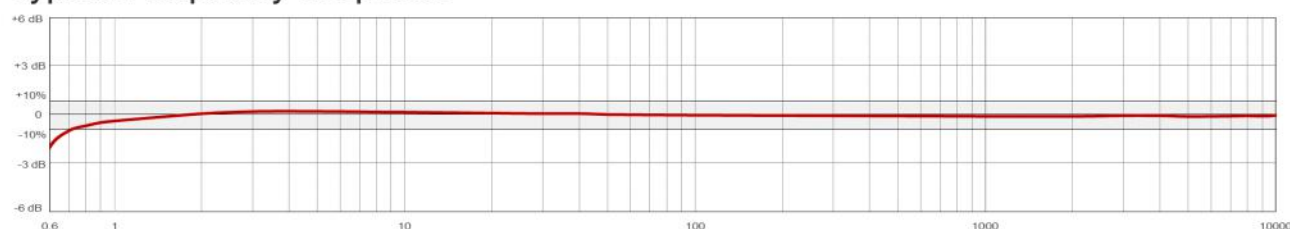
| Conductor | Polarity |
|------------------|------------------|
| Red (Axis Y/3) | (+) Signal/Power |
| Green (Axis X/2) | (+) Signal/Power |
| White (Axis Z/1) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|--------------|-----------------------------|---------------------|----------------------|
| Part Number | AC230 | M/AC230 | Environmental | | |
| Sensitivity (±5%) | | 100 mV/g | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 36-600,000 CPM | 0,6-10000 Hz | Maximum Shock Protection | | 5,000 g, peak |
| Frequency Response (±10%) | 60-390,000 CPM | 1,0-6500 Hz | Electromagnetic Sensitivity | | CE |
| Frequency Response (±5%) | 480-330,000 CPM | 8,0-5500 Hz | Sealing | | Welded, Hermetic |
| Dynamic Range | | ± 50 g, 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 | 27 µg/√Hz | | Weight | 7.1 oz | 200 grams |
| Spectral Noise @ 100 Hz | 6.5 µg/√Hz | | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 1000 Hz | 2.5 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 ohm | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| | | | Calibration Certificate | | CA10 |

Typical Frequency Response



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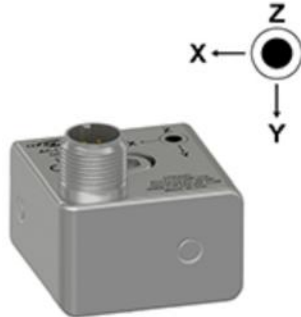
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AC155 Series



VIBRATION ANALYSIS HARDWARE

Low Cost Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 100 mV/g, ±15%



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

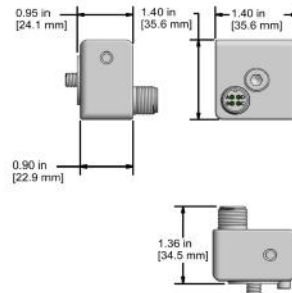
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Popularly used for Modal Analysis and ODS (Operating Deflection Shape)
- ▶ Compatible with CTC J Series Mini-MIL Connectors

AC155-1D

4 Pin Connector

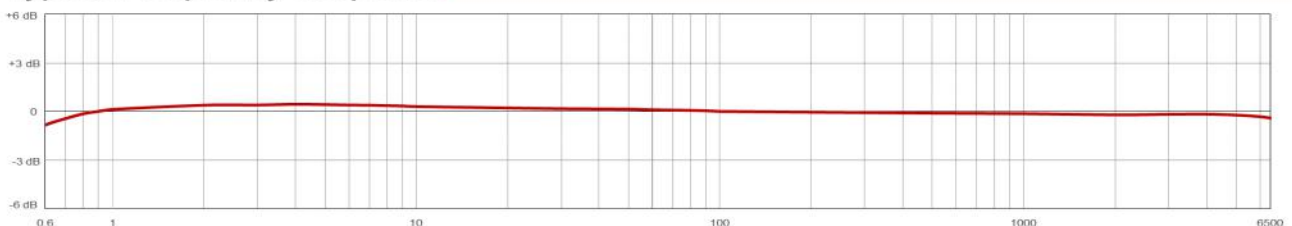
| Connector Pin | Polarity |
|---------------|------------------|
| A (Axis Y/3) | (+) Signal/Power |
| B (Axis X/2) | (+) Signal/Power |
| C (Axis Z/1) | (+) Signal/Power |
| D | (-) Common/Grid |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|-----------------------|--------------|-----------------------------|---------------------|--------------------------|
| Part Number | AC155 | M/AC155 | Environmental | | |
| Sensitivity (±15%) | | 100 mV/g | Operating Temperature Range | -65 to 250°F | -54 to 121°C |
| Frequency Response (±3dB) | 36-390,000 CPM | 0,6-6500 Hz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | ± 50 g, peak | Sealing | | Welded, Hermetic |
| 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 | 27 µg/√Hz | | Weight | 7.1 oz | 200 grams |
| Spectral Noise @ 100 Hz | 6.5 µg/√Hz | | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 1000 Hz | 2.5 µg/√Hz | | Mounting Thread | | 1/4-28 Blind Tapped Hole |
| Output Impedance | <100 ohm | | Connector (Non-Integral) | | 4 Pin J Connector |
| 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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AC115-M12D Series



Low Cost Triaxial Accelerometer, Side Exit 4 Pin M12 Connector, 100 mV/g, $\pm 15\%$

VIBRATION ANALYSIS HARDWARE



Product Features

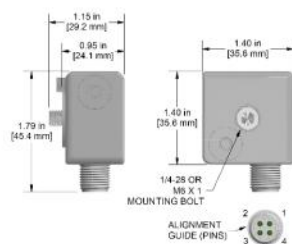
Collect 3 Channels of Data Simultaneously for Faster Data Collection

- ▶ Cost Effective, Rugged Triaxial Sensor Ideally Suited for a Wide Variety of Industrial Applications
- ▶ Compatible with CTC M4 Series Connectors

AC115-M12D

4 Pin M12 Connector

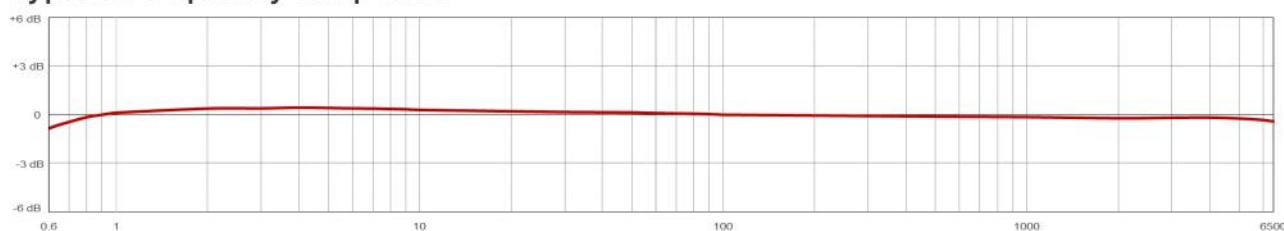
| Connector Pin | Polarity |
|---------------|------------------|
| 1 (Axis Y) | (+) Signal/Power |
| 2 (Axis X) | (+) Signal/Power |
| 3 (Axis Z) | (+) Signal/Power |
| 4 | (-) Common |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|---|----------------|------------------------------------|-----------------------------|---------------------|----------------------|
| Part Number | AC115-M12D | M/AC115-M12D | Environmental | | |
| Sensitivity ($\pm 15\%$) | | 100 mV/g | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response ($\pm 3\text{dB}$) | 60-390,000 CPM | 1.0-6500 Hz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | ± 50 g, peak | Sealing | | Welded, Hermetic |
| 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 | | 27 $\mu\text{g}/\sqrt{\text{Hz}}$ | Weight | 7.1 oz | 200 grams |
| Spectral Noise @ 100 Hz | | 6.5 $\mu\text{g}/\sqrt{\text{Hz}}$ | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 1000 Hz | | 2.5 $\mu\text{g}/\sqrt{\text{Hz}}$ | Connector (Non-Integral) | | 4 Pin M12 Connector |
| 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



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AC115 Series

Low Cost Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



Product Features

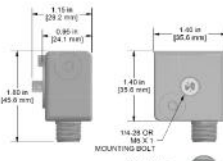
Collect 3 Channels of Data Simultaneously for Faster Data Collection

- ▶ Cost Effective, Rugged Triaxial Sensor Ideally Suited for a Wide Variety of Industrial Applications
- ▶ Compatible with CTC J Series Mini-MIL Connectors

AC115-1D

4 Pin Mini-MIL 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 |

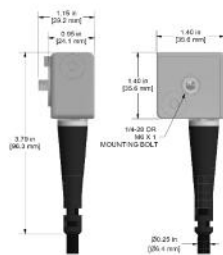


Stock Product

AC115-2D

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 |

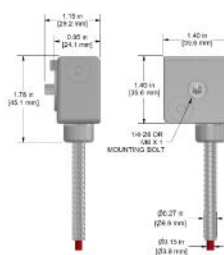


Built To Order

AC115-3D

CB218 Armored Integral Cable

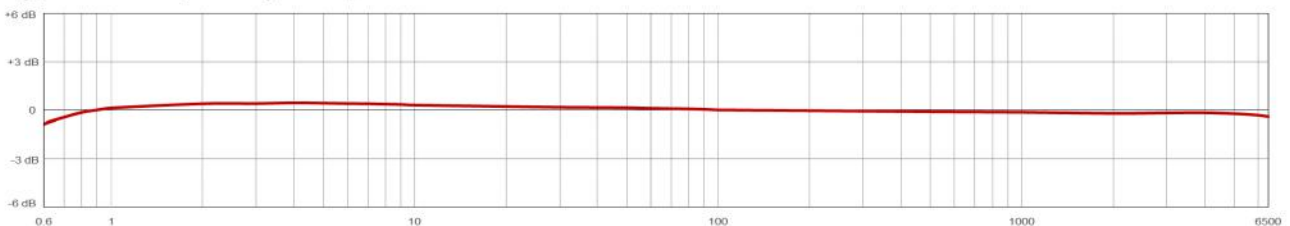
| Conductor | Polarity |
|------------------|------------------|
| Red (Axis Y/3) | (+) Signal/Power |
| Green (Axis X/2) | (+) Signal/Power |
| White (Axis Z/1) | (+) Signal/Power |
| Black | (-) Common/Grid |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|---|------------------------------------|------------------|-----------------------------|---------------------|----------------------|
| Part Number | AC115 | M/AC115 | Environmental | | |
| Sensitivity ($\pm 15\%$) | | 100 mV/g | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response ($\pm 3\text{dB}$) | 60-390,000 CPM | 1,0-6500 Hz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | ± 50 g, peak | Sealing | | Welded, Hermetic |
| Electrical | | | Submersible Depth | 200 ft. | 60 m |
| Settling Time | <2.5 seconds | | SIL Rating | | SIL 2 |
| Voltage Source (IEPE) | 18-30 VDC | | Physical | | |
| Constant Current Excitation | 2-10 mA | | Sensing Element | | PZT Ceramic |
| Spectral Noise @ 10 Hz | 27 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Sensing Structure | | Shear Mode |
| Spectral Noise @ 100 Hz | 6.5 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Weight | 7.1 oz | 200 grams |
| Spectral Noise @ 1000 Hz | 2.5 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Case Material | | 316L Stainless Steel |
| Output Impedance | <100 ohm | | Connector (Non-Integral) | | 4 Pin Mini MIL |
| 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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