# AC115 Series

**Low Cost Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±15%**

VIBRATION ANALYSIS HARDWARE


## Product Features

Low Cost Triaxial Sensor

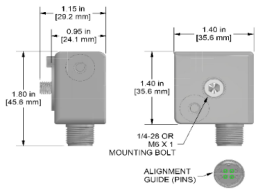
Speeds Data Collection

- ±15% Sensitivity
- Collect 3 Channels of Data Simultaneously
- Must Use J4A, J4C, J4N, or J4P Connectors and CB105, CB117, CB119 or CB218 Cables

### AC115-1D

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 |

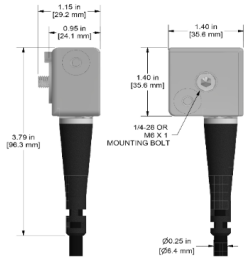



**Stock Product**

### 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 |

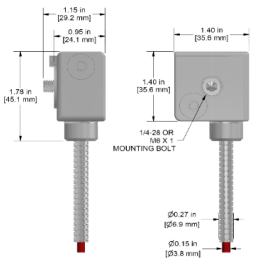



**Built To Order**

### 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 |

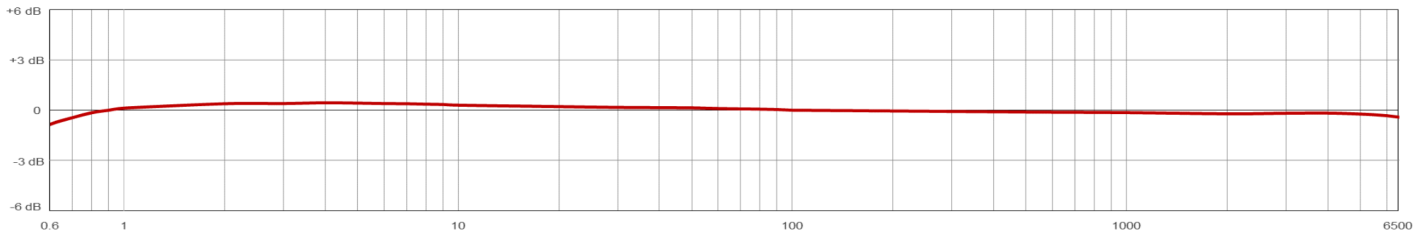



**Built To Order**

| Specifications | Standard | Metric |
|---|---|---|
| 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 (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 | -58 to 250°F | -50 to 121°C |
| Electromagnetic Sensitivity | CE | |
| Sealing | Welded, Hermetic | |
| Submersible Depth | 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 | |

## Typical Frequency Response

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