

Low Cost 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

Low Cost Triaxial Sensor
Speeds Data Collection

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

Actual Product Size Shown



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 |

ALIGNMENT GUIDE (PIN)

CTC multi-conductor cable

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

AC115-2D

Integral Cable

| Conductor | Polarity | Azima DLI Compatible Connector Pin | 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 Connector Pin | 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 (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 | | 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 (1/4-28 Captive Bolt) | AC115-2D - / (1/4-28 Captive Bolt) | AC115-3D - / (1/4-28 Captive Bolt) |
| Metric | M/AC115-1D (M6x1 Captive Bolt) | M/AC115-2D - / (M6x1 Captive Bolt) | M/AC115-3D - / (M6x1 Captive Bolt) |

Cable Termination Options: E3C



Backed by our Unconditional Lifetime Warranty

