

AC119 Series

Biaxial Accelerometer, Side Exit 3 Pin Connector, 100 mV/g, with X and Z Axis, ±15%

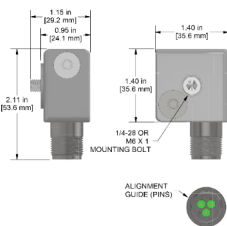


Product Features

- Low Cost Biaxial Sensor
- ▶ 100 mV/g/axis (±15%)
  - ▶ Monitor 2 Channels of Data Simultaneously
  - ▶ Compatible with C509 and A3AB connectors

AC119-1D  
3 Pin Connector

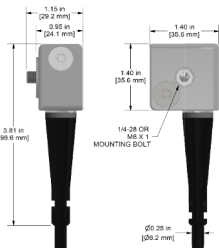
| Connector Pin | Polarity         |
|---------------|------------------|
| A (Axis X)    | (+) Signal/Power |
| B (Axis Z)    | (+) Signal/Power |
| C             | (-) Common/Grid  |



Stock Product

AC119-2D  
CB105 Integral Cable

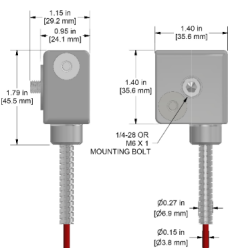
| Conductor      | Polarity         |
|----------------|------------------|
| Green (Axis X) | (+) Signal/Power |
| White (Axis Z) | (+) Signal/Power |
| Black          | (-) Common/Grid  |



Built To Order

AC119-3D  
CB218 Armored Integral Cable

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



Built To Order

| Specifications              | Standard                                | Metric      | Specifications              | Standard             | Metric            |
|-----------------------------|-----------------------------------------|-------------|-----------------------------|----------------------|-------------------|
| Part Number                 | AC119                                   | M/AC119     | Environmental               |                      |                   |
| Sensitivity (±15%)          | 100 mV/g                                |             | Operating Temperature Range | -58 to 250°F         | -50 to 121°C      |
| Frequency Response (±3dB)   | 60-390,000 CPM                          | 1,0-6500 Hz | Electromagnetic Sensitivity | CE                   |                   |
| Dynamic Range               | ± 50 g, peak<br>*Vsource ≥ 22V, 12Vbias |             | 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      | 27 µg/√Hz                               |             | Sensing Element             | PZT Ceramic          |                   |
| Spectral Noise @ 100 Hz     | 6.5 µg/√Hz                              |             | Sensing Structure           | Shear Mode           |                   |
| Spectral Noise @ 1000 Hz    | 2.5 µg/√Hz                              |             | Weight                      | 6.9 oz               | 195 grams         |
| Output Impedance            | <100 ohm                                |             | Case Material               | 316L Stainless Steel |                   |
| Bias Output Voltage         | 10-14 VDC                               |             | Connector (Non-Integral)    | C509, C519           |                   |
| Case Isolation              | >10 <sup>8</sup> ohm                    |             | Mounting Torque             | 1 to 2 ft. lbs.      | 1,4 to 2,7 Nm     |
|                             |                                         |             | Mounting Hardware Supplied  | 1/4-28 Captive Bolt  | M6x1 Captive Bolt |