

## Low Cost Biaxial Accelerometer, Connector/Cable, 100 mV/g

Section I - Vibration Sensors

Actual Product Size Shown



### Product Features

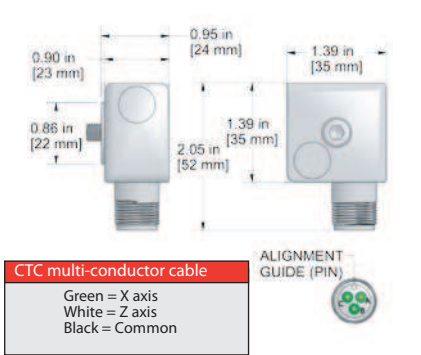
**Low Cost Biaxial Sensor**  
**Speeds Data Collection**

- 100 mV/g/axis ( $\pm 15\%$ )
- Monitor 2 Channels of Data Simultaneously
- Cost Effective

#### AC119-1D

3 Pin Connector

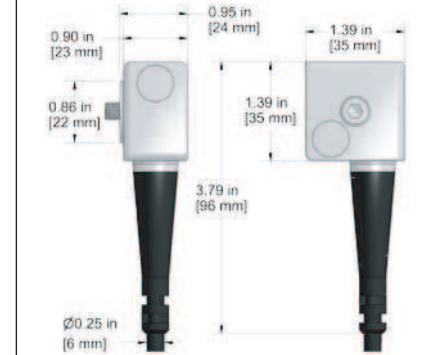
Connector	Pin Polarity
A	Axis X (+) Signal / Power
B	Axis Z (+) Signal / Power
C	(-) Common / Gnd



#### AC119-2D

Integral Cable

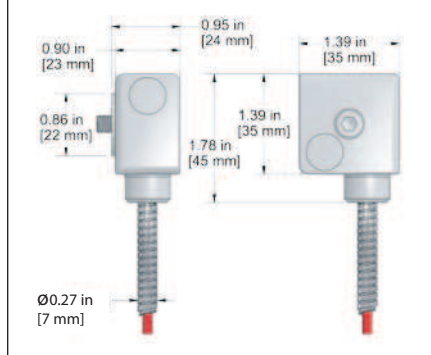
Conductor	Polarity
Green	Axis X (+) Signal / Power
White	Axis Z (+) Signal / Power
Black	(-) Common / Gnd



#### AC119-3D

Armored Integral Cable

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



Specifications	Standard	Metric
Part Number	AC119	M/AC119
Sensitivity ( $\pm 15\%$ )	100 mV/g	
Frequency Response ( $\pm 3\text{dB}$ )	60-390,000 CPM	1,0-6500 Hz
Dynamic Range	$\pm 50$ g, peak	
<b>Electrical</b>		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC119-2D/3D)	200 ft.	60 m
<b>Physical</b>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	6.9 oz	195 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	3 PIN MIL	
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	AC119-1D (1/4-28 Captive Bolt)	AC119-2D - / (1/4-28 Captive Bolt)	AC119-3D - / (1/4-28 Captive Bolt)
Metric	M/AC119-1D (M6x1 Captive Bolt)	M/AC119-2D - / (M6x1 Captive Bolt)	M/AC119-3D - / (M6x1 Captive Bolt)

Cable Termination Options: L Z Note: CTC multi-conductor cable: Red = Y axis, Green = X axis, White = Z axis, Black = Common