

## Low Cost Biaxial Accelerometer, M12 Connector, 100 mV/g

Section I - Vibration Sensors



Actual Product Size Shown



### Product Features

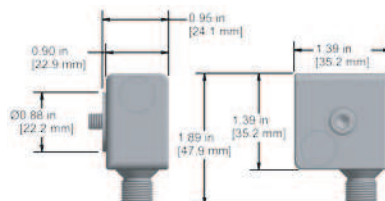
**Low Cost Biaxial Sensor**  
**Speeds Data Collection**

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

### AC119-M12D

3 Pin Connector

Connector	Pin Polarity
1	Not Used
2	X Axis Signal / Power
3	Z Axis Signal / Power
4	Common / Gnd



CTC multi-conductor cable

Green = X axis  
White = Z axis  
Black = Common



Specifications	Standard	Metric
Part Number	AC119-M12D	M/AC119-M12D
Sensitivity ( $\pm 15\%$ )	100 mV/g	
Frequency Response ( $\pm 3dB$ )	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 $\mu g/\sqrt{Hz}$	
Spectral Noise @ 100 Hz	6.5 $\mu g/\sqrt{Hz}$	
Spectral Noise @ 1000 Hz	2.5 $\mu g/\sqrt{Hz}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	$>10^8$ 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-M12D (1/4-28 Captive Bolt)	
Metric	M/AC119-M12D (M6x1 Captive Bolt)	

Backed by our Unconditional Lifetime Warranty

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