

AC127 Series

Low Cost, High G Measurement Accelerometer, Top Exit 2 Pin Connector, 50 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



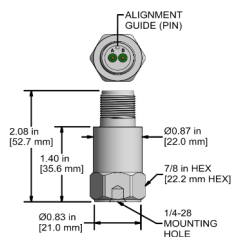
Product Features

- 50 mV/g General Purpose Sensor
- Excellent for Higher g Applications
- ± 100 g, Dynamic Range
- 50 mV/g, $\pm 15\%$ Sensitivity
- 1,0-12500 Hz (60-750,000 CPM)

AC127-1A

2 Pin Connector

Connector	Polarity
Pin	(+)
A	Signal/Power
B	(-) Common

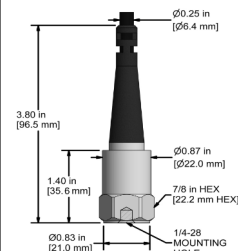


Stock Product

AC127-2A

CB103 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

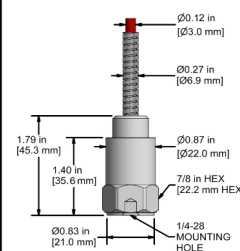


Built To Order

AC127-3A

CB206 Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

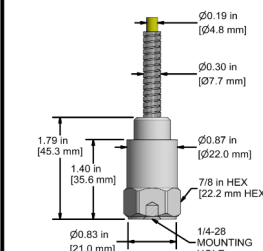


Built To Order

AC127-6A

CB611 Heavy Duty Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

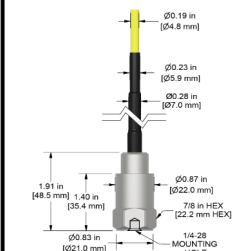


Built To Order

AC127-6N

CB111 FEP Jacketed Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC127	M/ or M8/AC127	<u>Environmental</u>		
Sensitivity ($\pm 15\%$)	50 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 100 g, peak *Vsource ≥ 22 V, 12Vbias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	$\leq 5\%$		Sealing	Welded, Hermetic	
<u>Electrical</u>			Submersible Depth	200 ft.	60 m
Settling Time	5 Seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	8 μ g/ $\sqrt{\text{Hz}}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2.5 μ g/ $\sqrt{\text{Hz}}$		Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz	1.7 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

