

Multi-Purpose Accelerometer, Top Exit Connector/Cable, 50 mV/g

SECTION I - VIBRATION SENSORS
Accelerometers



Actual Product Size Shown



Product Features

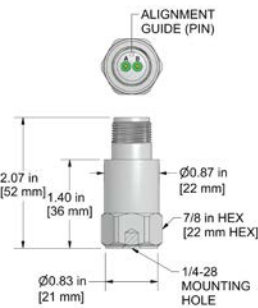
50 mV/g General Purpose Sensor
Excellent for Higher g Applications

- ± 100 g, Peak Dynamic Range
- 50 mV/g, $\pm 10\%$ Sensitivity
- 1,0-12500 Hz (60-750,000 CPM)

AC117-1A

2 Pin Connector

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



AC117-2C

Integral Cable

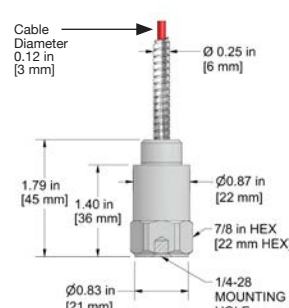
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



AC117-3C

Armored Integral Cable

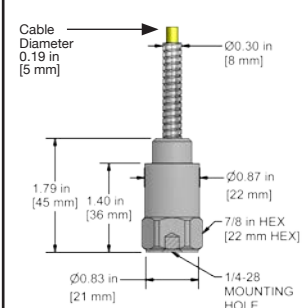
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



AC117-6C

Heavy Duty Armored Integral Cable

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



Specifications	Standard	Metric
Part Number	AC117	M/AC117
Sensitivity ($\pm 10\%$)	50 mV/g	
Frequency Response (± 3 dB)	60-750,000 CPM	1,0-12500 Hz
Frequency Response ($\pm 10\%$)	240-540,000 CPM	4,0-9000 Hz
Dynamic Range	± 100 g, peak	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	8 μ g/ \sqrt Hz	
Spectral Noise @ 100 Hz	2.5 μ g/ \sqrt Hz	
Spectral Noise @ 1000 Hz	1.7 μ g/ \sqrt Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁹ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC117-2C/3C)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.2 oz	90 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

Ordering Information

Standard	AC117-1A (1/4-28 Stud)	AC117-2C - / (1/4-28 Stud)	AC117-3C - / (1/4-28 Stud)	AC117-6C - / (1/4-28 Stud)
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)	(maximum armor length 20 ft.) (cable length in feet) (termination)
Metric	M/AC117-1A (M6x1 Adapter Stud)	M/AC117-2C - / (M6x1 Adapter Stud)	M/AC117-3C - / (M6x1 Adapter Stud)	M/AC117-6C - / (M6x1 Adapter Stud)
		(length in feet) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)	(maximum armor length 6 m) (cable length in meters) (termination)
		(length in meters) (termination)		

Cable Termination Options: **E** **F** **L** **Z**

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VIBRATION ANALYSIS HARDWARE