

AC307 Series

Premium, High Temperature IEPE Accelerometer, 325 °F (162 °C) Maximum Temperature, Top Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

High Temperature Resistance (325 °F) Sensor

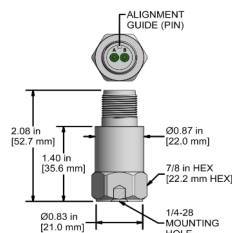
Proven Sensor for Standard High-Temperature Applications

- ▶ Great for Extended Use at High Temperatures
- ▶ Improved RF Immunity

AC307-1A

2 Pin Connector

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

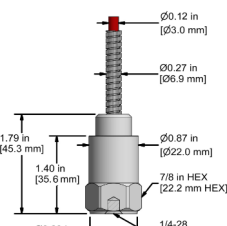


Stock Product

AC307-5A

CB206 Armored Integral Cable

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

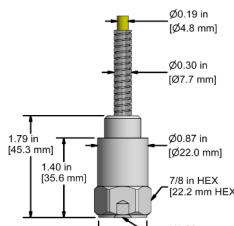


Built To Order

AC307-6A

CB611 Heavy Duty Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC307	M/ or M8/AC307	<u>Environmental</u>		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-58 to 325 ° F	-50 to 162 °C
Frequency Response (±3dB)	30-750,000 CPM	0.5-12500 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-360,000 CPM	2.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	±80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Transverse Sensitivity	≤5%		<u>Physical</u>		
<u>Electrical</u>			Sensing Element	PZT Ceramic	
Settling Time	<2.5 Seconds		Sensing Structure	Shear Mode	
Voltage Source	18-30 VDC		Weight	3 oz.	86 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	8 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 100 Hz	.82 µg/√Hz		Connector (Non-Integral)	2 Pin -MIL-C-5015	
Spectral Noise @ 1000 Hz	.3 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	
Dielectric Breakdown Voltage	SIL 2				

Typical Frequency Response

