

AC131 Series

High G & High Frequency Measurement Accelerometer, Top Exit 2
Pin Connector, 10 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

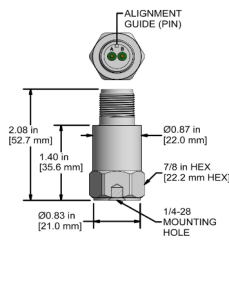
Very High 500g Accelerometer

High Amplitude

- ▶ 1 - 15000 Hz (60-900,000 CPM) Frequency Response when Stud Mounted
- ▶ 10 mV/g ±10% Sensitivity
- ▶ ± 500 g Dynamic Range

AC131-1A 2 Pin Connector

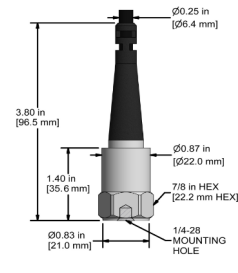
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC131-2C CB103 Integral Cable

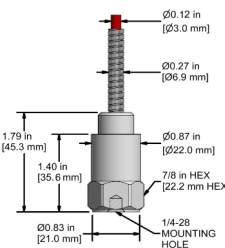
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC131-3C CB206 Armored Integral Cable

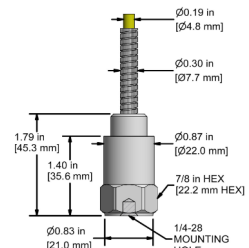
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC131-6C 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	AC131	M/AC131	Environmental		
Sensitivity (±10%)	10 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-360,000 CPM	2,0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 500 g, peak		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	300 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	30 µg/√Hz		Weight	3.2 oz.	90 grams
Spectral Noise @ 1000 Hz	6 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting	1/4-28	
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	1/4-28	M6x1 Adapter