

AC153 Series

Low Cost, Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



Product Features

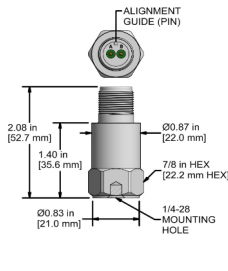
Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but may also be used for High Frequency Detection

Low Cost Accelerometer

- ▶ 500 mV/g Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10 kHz for High Frequency Detection

AC153-1D 2 Pin Connector

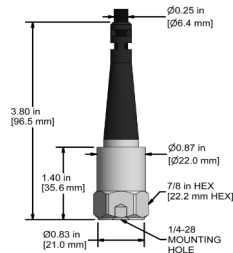
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC153-2D CB103 Integral Cable

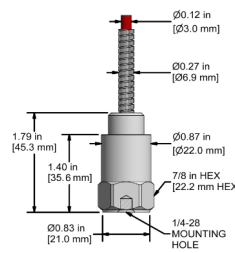
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC153-3D CB206 Armored Integral Cable

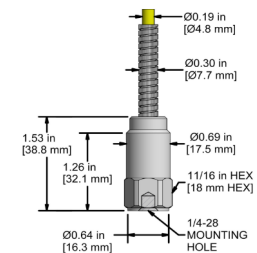
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC153-6D 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	AC153	M/ or M8/AC153	Environmental		
Sensitivity (±15%)	500 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Settling Time	<2 Seconds		Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)	18-30 VDC		SIL Rating	SIL 2	
Constant Current Excitation	2-10 mA		Physical		
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Element	PZT Ceramic	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Weight	3.2 oz	92 grams
Output Impedance	<100 ohm		Case Material	316L Stainless Steel	
Bias Output Voltage	10-14 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Case Isolation	>10 ⁸ ohm		Connector (Non-Integral)	2 Pin MIL- C-5015	
			Resonant Frequency	1,080,000	18000 Hz