AC153 Series



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



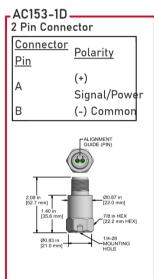


Product Features

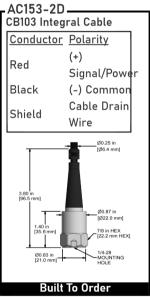
Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but may also be used for High Frequency Detection

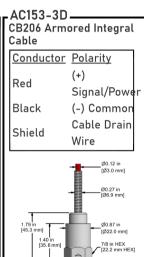
Low Cost Accelerometer

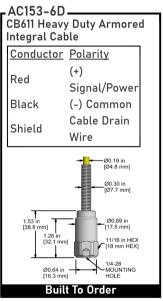
- ▶ 500 mV/g Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10 kHz for High Frequency Detection



Stock Product







	Specifications	Standard		Metric	
	Part Number	AC153		M/ or M8/AC153	<u>Er</u>
	Sensitivity (±15%)		500 mV/g		0
	Frequency Response (±3dB)	6-600,000 CPM		0,1-10000 Hz	M
	Frequency Response (±10%)	36-180,000 CPM		0,6-3000 Hz	E
	Dynamic Range		± 16g, peak *Vsource ≥ 22V, 12Vbias		S S Ph
	<u>Electrical</u>				S
	Settling Time		<2 Seconds		S
	Voltage Source (IEPE)		18-30 VDC		5
	Constant Current Excitation		2-10 mA		V
	Spectral Noise @ 10 Hz Spectral Noise @ 100 Hz		1.7 μg/√Hz 0.2 μg/ √Hz		С
	Spectral Noise @ 1000 Hz		0.12 μg/ √Hz		M
	Output Impedance		<100 ohm		Įv
	Bias Output Voltage		10-14 VDC		
	Case Isolation		>10 ⁸ ohm		C

	Built To Order	Built To Order		
	Specifications	Standard		Metric
	<u>Environmental</u>			
3	Operating Temperature Range	-58 to 250 e °F		-50 to 121 °C
	Maximum Shock Protection		5,000 g, peak	
	Electromagnetic Sensitivity		CE	
	Sealing		Welded, Hermetic	
	Submersible Depth	200 ft.		60 m
	SIL Rating <u>Physical</u>		SIL 2	
	Sensing Element		PZT Ceramic	
	Sensing Structure		Shear Mode	
	Weight	3.2 oz		92 grams
	Case Material		316L Stainless Steel	
	Mounting Thread		1/4-28 Blind Tapped Hole	
	Connector (Non-Integral)		2 Pin MIL- C-5015	
	Paganant Fraguancy	1,080,000		10000 U-