



Actual Product Size Shown



### Product Features

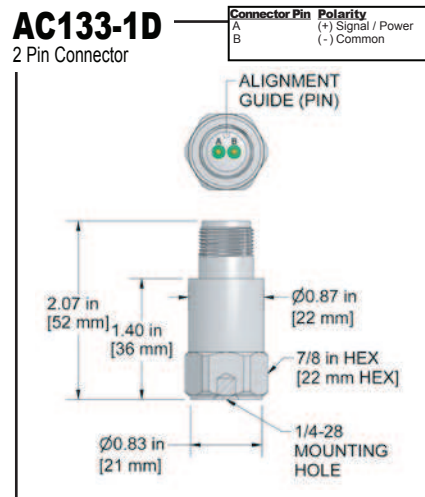
**Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but can also be used for High Frequency Detection.**

**Can be used with any application that requires low and high frequency measurements.**

- 500 mV/g Sensitivity,  $\pm 10\%$  Sensitivity
- 0.1 Hz for Low Frequency Measurements
- 10,000 Hz for High Frequency Detection

### AC133-1D

2 Pin Connector



Specifications	Standard	Metric
Part Number	AC133-1D	M/AC133-1D
Sensitivity ( $\pm 10\%$ )	500 mV/g	
Frequency Response ( $\pm 3dB$ )	6-600,000 CPM	0,1-10000 Hz
Frequency Response ( $\pm 10\%$ )	36-180,000 CPM	0,6-3000 Hz
Dynamic Range	$\pm 10$ g, peak	
<b>Electrical</b>		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.7 $\mu g/\sqrt{Hz}$	
Spectral Noise @ 100 Hz	0.2 $\mu g/\sqrt{Hz}$	
Spectral Noise @ 1000 Hz	0.12 $\mu g/\sqrt{Hz}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
<b>Physical</b>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.25 oz	92 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,080,000 CPM	18000 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	AC133-1D (1/4-28 Stud)
Metric	M/AC133-1D (M6x1 Adapter Stud)