

AC931 Series

Class I, Division 2 / Zone 2 Accelerometer, For Use In "Non-Arcing, Non-Sparking" Environments, Top Exit Connector, 10 mV/g Low Capacitance



VIBRATION ANALYSIS HARDWARE



Product Features

Class I, Division 2 / Zone 2 Rating

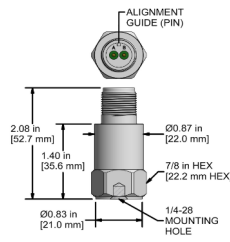
Must Use "Class I, Division 2" CB190 or CB206 Cable and D2Q Connectors

- ▶ 10 mV/g Sensitivity $\pm 10\%$
- ▶ 1,2 - 15000 Hz (72 - 900,000 CPM) Frequency Response
- ▶ ± 500 g, Dynamic Range

AC931-1A

2 Pin Connector

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

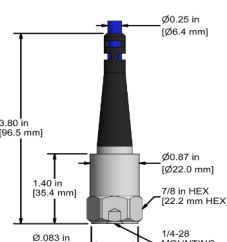


Stock Product

AC931-2C

Integral Cable

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

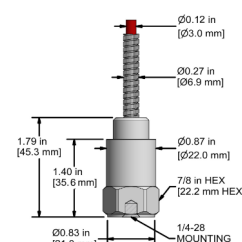


Built To Order

AC931-3C

Armored Integral Cable

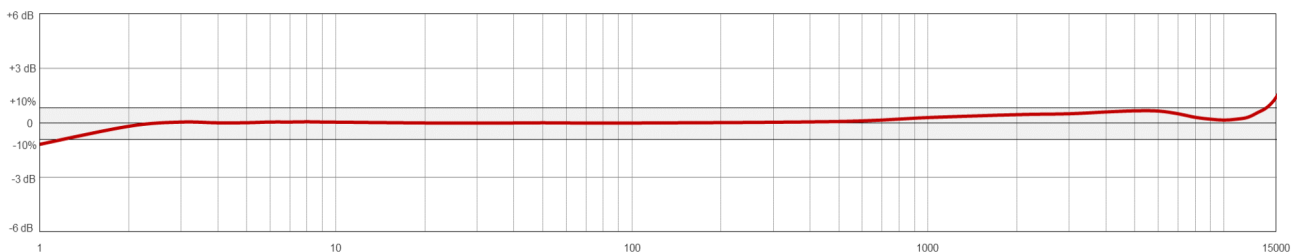
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC931	M/AC931	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)		10 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (± 3 dB)	60-900,000 CPM	1.0-15000 Hz	Maximum Shock Protection	5,000 g. peak	
Frequency Response ($\pm 10\%$)	120-360,000 CPM	2.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 500 g. peak	Sealing	Welded, Hermetic	
<u>Electrical</u>			<u>Physical</u>		
Settling Time	<3 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.2 oz	91 grams
Spectral Noise @ 10 Hz	100 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	90 μ g/ $\sqrt{\text{Hz}}$		Mounting	1/4-28	
Spectral Noise @ 1000 Hz	85 μ g/ $\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

www.ctconline.com | sales@ctconline.com | 585-924-5900