

AC931 Series

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



Actual Product Size Shown



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

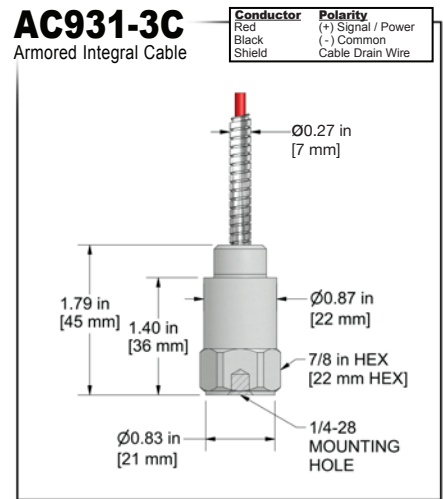
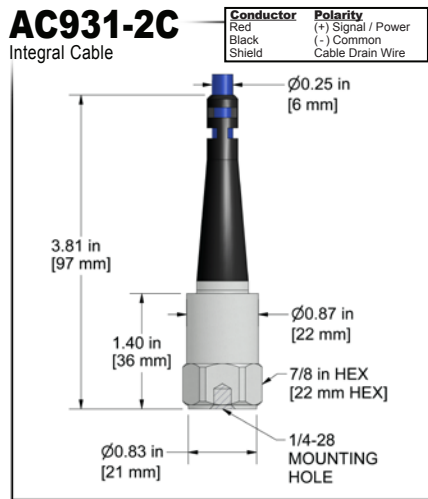
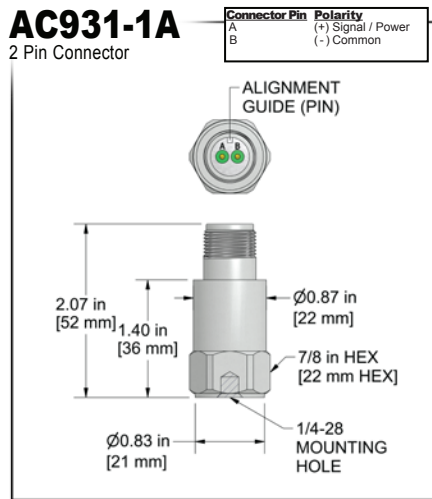
Product Features

Class I, Division 2/Zone 2 Rating

Helps to Detect Bearing Defects and Other High Frequency Faults

- 10 mV/g Sensitivity
- 1,0 - 15000 Hz (60 - 900,000 CPM) Frequency Response
- ±500 g, Peak Dynamic Range

SECTION 1 - VIBRATION SENSORS
Low Capacitance Accelerometers



Specifications	Standard	Metric
Part Number	AC931	M/AC931
Sensitivity (±10%)	10 mV/g	
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz
Frequency Response (±10%)	120-360,000 CPM	2,0-6000 Hz
Dynamic Range	± 500 g, peak	
Electrical		
Settling Time	<3 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	100 µg/√Hz	
Spectral Noise @ 100 Hz	90 µg/√Hz	
Spectral Noise @ 1000 Hz	85 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-40° to 250°F	-40° to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.2 oz	91 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
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 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

Ordering Information

Standard	AC931-1A (1/4-28 Stud)	AC931-2C - / (1/4-28 Stud)	AC931-3C - / (1/4-28 Stud)

Read Before Purchasing
Important information on Regulatory Approvals and Requirements on Page 84

Cable Termination Options: L Z



Backed by our Unconditional Lifetime Warranty