

**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

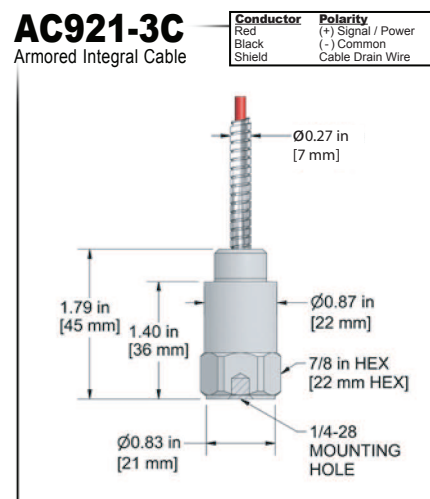
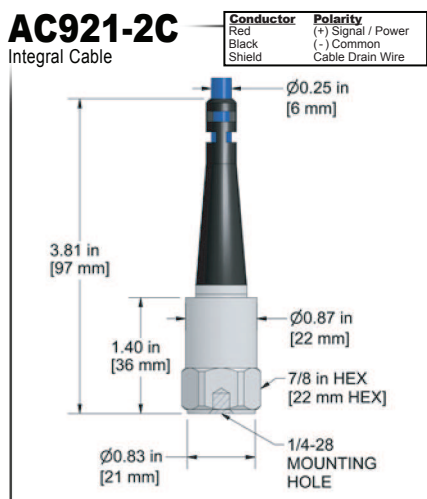
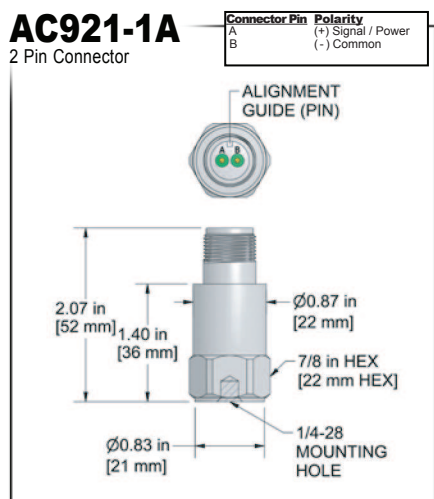


**Must Use "Class I, Division 2" CB190 or CB206 Cable and D2Q Connectors**

## Product Features

**Class I, Division 2/Zone 2 Rating**  
**Helps to Detect Bearing Defects and Other High Frequency Faults**

- 10 mV/g Sensitivity
- 1,2 - 15000 Hz (72 - 900,000 CPM) Frequency Response
- ±500 g, Peak Dynamic Range



Specifications	Standard	Metric
Part Number	AC921	M/AC921
Sensitivity ( ±10%)	10 mV/g	
Frequency Response (±3dB)	72-900,000 CPM	1,2-15000 Hz
Frequency Response (±10%)	150-360,000 CPM	2,5-6000 Hz
Dynamic Range	± 500 g, peak	
<b>Electrical</b>		
Settling Time	<3 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	500 µg/√Hz	
Spectral Noise @ 100 Hz	65 µg/√Hz	
Spectral Noise @ 1000 Hz	11 µg/√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	3.2 oz	90 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	AC921-1A (1/4-28 Stud)	AC921-2C - / (1/4-28 Stud)	AC921-3C - / (1/4-28 Stud)
Metric	M/AC921-1A (M6x1 Adapter Stud)	M/AC921-2C - / (M6x1 Adapter Stud)	M/AC921-3C - / (M6x1 Adapter Stud)

**Read Before Purchasing**  
 Important information on  
**Regulatory Approvals and Requirements**  
 on Page 64

Cable Termination Options: L Z



VIBRATION ANALYSIS HARDWARE

Backed by our Unconditional Lifetime Warranty