

Intrinsically Safe Accelerometer, Top Exit Connector/Cable, 10 mV/g

Section I - Vibration Sensors



Actual Product Size Shown



Requires Intrinsically Safe Barrier

Product Features

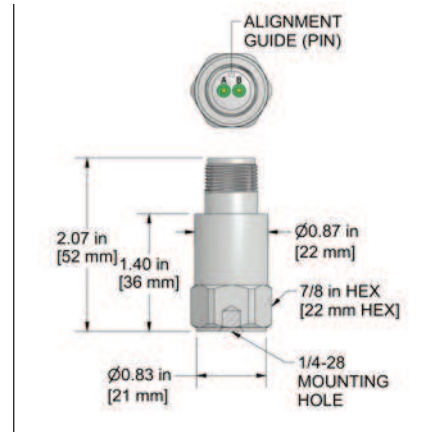
CSA/ATEX Approved

Helps to Detect Bearing Defects and Other High Frequency Faults

- ±500 g, Peak Dynamic Range
- 1,2 - 15000 Hz (72 - 900,000 CPM) Frequency Response
- Requires Intrinsic Safety Barrier (see page 348)

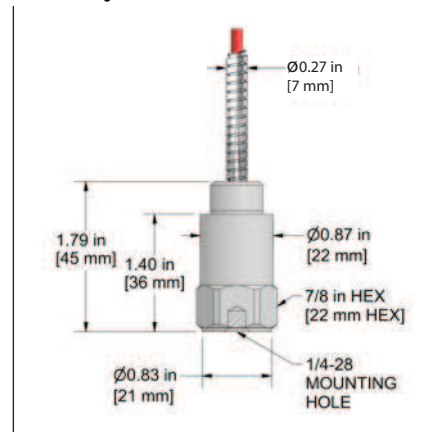
AC901-1A 2 Pin Connector

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



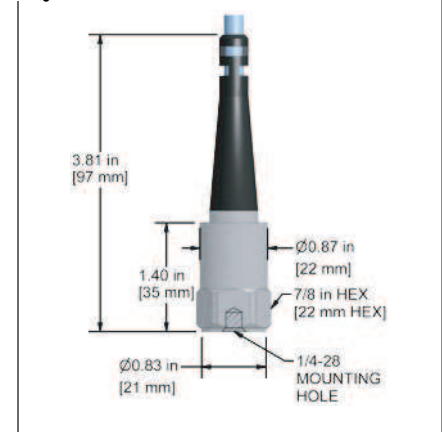
AC901-3C Armored Integral Cable

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



AC901-9C Integral Cable

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



Specifications	Standard	Metric
Part Number	AC901	M/AC901
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
Electrical		
Settling Time		<3 Seconds
Voltage Source (IEPE)		18-28 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 ⁸ ohm

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 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	90 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (AC901-1A)		2 Pin MIL-C-5015
Armored Cable (AC901-3C)		Armor Jacketed Cable
Integral Cable (AC901-9C)		RAL 5015 Blue Polyurethane Cable
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	AC901-1A (1/4-28 Stud)	AC901-3C - / (1/4-28 Stud)	AC901-9C - / (1/4-28 Stud)
	Stock Product	Build To Order	Build To Order
	[Diagram: length in feet, termination]	[Diagram: length in feet, termination]	[Diagram: length in feet, termination]
Metric	M/AC901-1A (M6x1 Adapter Stud)	M/AC901-3C - / (M6x1 Adapter Stud)	M/AC901-9C - / (M6x1 Adapter Stud)
	Stock Product	Build To Order	Build To Order
	[Diagram: length in meters, termination]	[Diagram: length in meters, termination]	[Diagram: length in meters, termination]

Read Before Purchasing
Important information on
Regulatory Approvals and Requirements
on Pages 70 & 71

Cable Termination Options: L Z

Backed by our Unconditional Lifetime Warranty

