

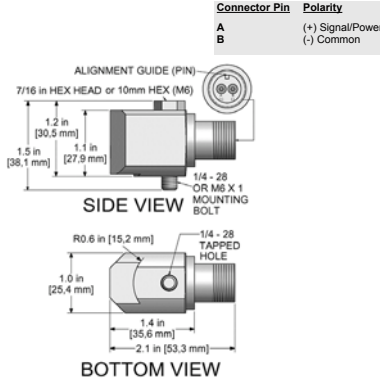
AC904 Series

Intrinsically Safe Accelerometer, Side Exit Connector / Cable, 50 mV/g



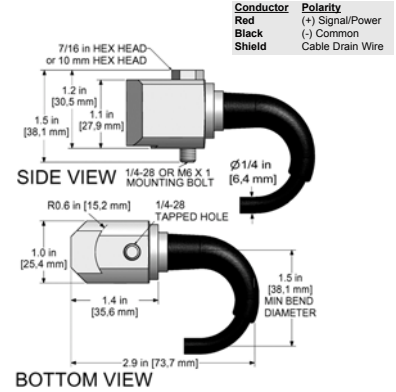
AC904-1A

2 Pin Connector



AC904-2A

Integral Cable



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

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

Part Numbers & Ordering Information:

When Ordering Metric, add "M" prefix.
(Example: M/AC904-2A/010-Z)

AC904-1A Intrinsically safe accelerometer, 50 mV/g, 2 pin side connector

AC904-2A/010-Z	10 ft. (3 m), blunt cut end
AC904-2A/020-Z	20 ft. (6 m), blunt cut end
AC904-2A/030-Z	30 ft. (9 m), blunt cut end
AC904-2A/050-Z	50 ft. (15 m), blunt cut end
AC904-2A/100-Z	100 ft. (30 m), blunt cut end

* Custom Lengths Available Upon Request

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity ±10%	50 mV/g	50 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response			Maximum Shock Protection	5,000 g, peak	5000 g, peak
±3 dB	60-600,000 CPM	1,0-10000 Hz	Electromagnetic Sensitivity	CE	CE
±10%	90-300,000 CPM	1,5-5000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
Dynamic Range	±100 g, peak	±100 g, peak	Submersible Depth (AC904-2A)	200 ft.	61 m
Electrical			Physical		
Settling Time (Turn on Time)			Sensing Element	PZT Ceramic	PZT Ceramic
@ Room Temp (68°F/20°C)	<3 Seconds	<3 Seconds	Sensing Structure	Shear Mode	Shear Mode
Power Requirement			Weight	5.3 oz.	150 grams
Voltage Source	18-28 VDC	18-28 VDC	Case Material	316L Stainless Steel	316L Stainless Steel
Constant Current Excitation	2-4 mA	2-4 mA	Mounting Hole	1/4-28	1/4-28
Electrical Noise (Typical)			Connector (AC904-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Broadband 2.5 Hz to 25 kHz	200 σg, rms	200 σg, rms	Integral Cable (AC904-2A)	CB103	CB103
Spectral 10 Hz	9 σg/√Hz	9 σg/√Hz	Mechanical		
100 Hz	2 σg/√Hz	2 σg/√Hz	Resonant Frequency	1,320,000 CPM	22000 Hz
1000 Hz	1.6 σg/√Hz	1.6 σg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Output Impedance, Max	<100 ohm	<100 ohm	Supplied Accessories		
Bias Output Voltage	10-14 VDC	10-14 VDC	Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Calibration Certificate	CA10	CA10

Common Applications

Industries Served

- Chemical
- Mining
- Manufacturing
- Painting / Plating
- Military
- Petrochemical

Typical Applications

- Machinery in Volatile Environments

Measurement Types

- Permanent Mount

Regulatory Approvals

- **US & Canadian Standards:** Division 1, Classes I, II, III, Groups A-F
- **ATEX:** Zone 0

*Proper IS Barrier selection required, please refer to the Overview on Intrinsic Safety

For optional accessories, please see the "Sensor Accessory Selection Chart".



VIBRATION ANALYSIS HARDWARE