

AC914 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

CSA / ATEX Approved

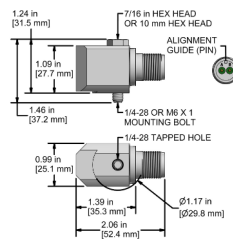
Excellent for Higher g Applications

- ▶ ±100 g Peak Dynamic Range
- ▶ 50 mV/g Sensitivity ±10%
- ▶ Requires Intrinsically Safe Barrier

AC914-1A

2 Pin Connector

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

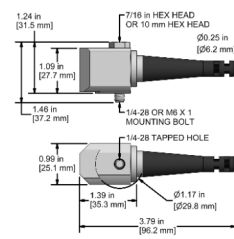


Stock Product

AC914-2C

CB190 Integral Cable

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

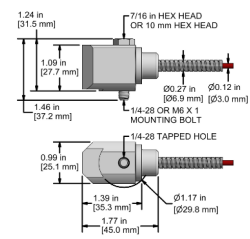


Built To Order

AC914-3C

CB206 Armored Integral Cable

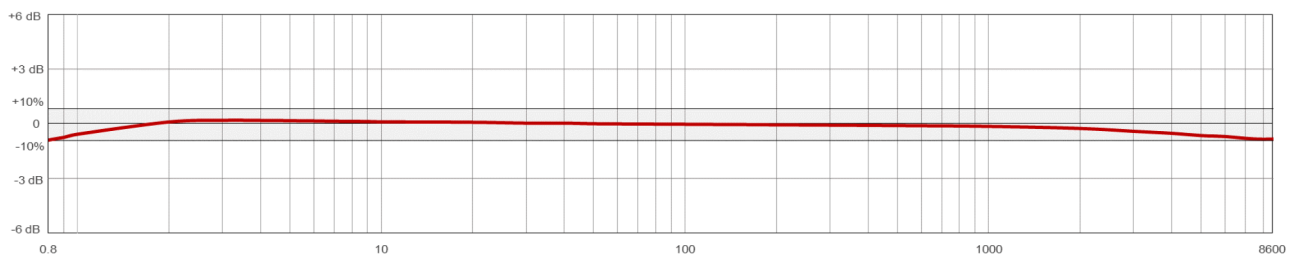
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC914	M/AC914	Environmental		
Sensitivity (±10%)		50 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	90-300,000 CPM	1,5-5000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 160 g, peak	Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		Physical		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-4 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	9 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 100 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	1.6 µg/√Hz		Mounting	1/4-28	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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