

AC194 Series

Compact, Multi-Purpose Accelerometer, Side Exit Connector / Cable, 100 mV/g



VIBRATION ANALYSIS HARDWARE



Product Features

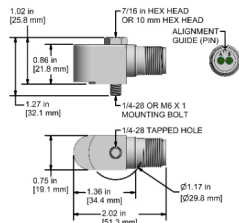
High Performance in an Affordable, Side Exit, Compact Sensor

Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, $\pm 10\%$
- ▶ $\pm 80g$ Dynamic Range
- ▶ Standard 2 Pin MIL Connection on Non-Integral Option

AC194-1D 2 Pin Connector

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

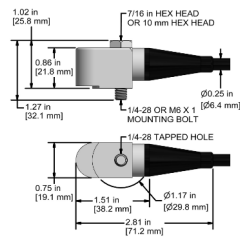


Stock Product

AC194-2D

CB103 Integral Cable

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

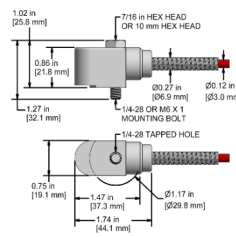


Built To Order

AC194-3D

CB206 Armored Integral Cable

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

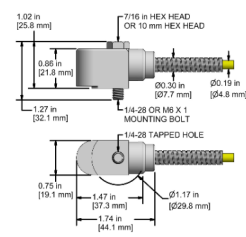


Built To Order

AC194-6D

CB611 Heavy Duty Armored Integral Cable

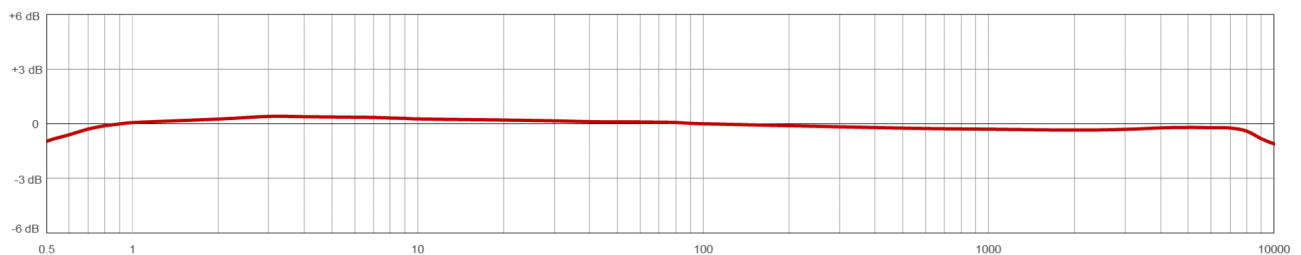
Conductor	Polarity
Red	(+) Power/Signal
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC194	M/AC194	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 3dB$)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	$\pm 80 g$, peak		Electromagnetic Sensitivity	CE	
Electrical			Sealing	Welded, Hermetic	
Settling Time	<2 Seconds		Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	8 $\mu g/\sqrt{Hz}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 $\mu g/\sqrt{Hz}$		Weight	3.3 oz	93 grams
Spectral Noise @ 1000 Hz	2 $\mu g/\sqrt{Hz}$		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting	Captive Bolt	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		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 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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