

# AC194 Series

Compact Multipurpose Accelerometer, Side Exit 2 Pin Connector,  
100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Product Features

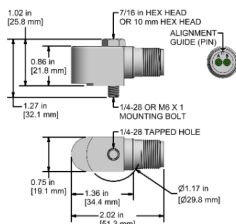
High Performance in an Affordable, Side Exit, Compact Sensor

Very Low Noise and Superior RF Immunity

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

### AC194-1D 2 Pin Connector

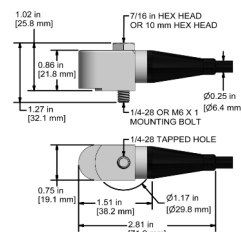
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC194-2D CB103 Integral Cable

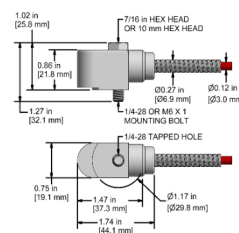
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC194-3D CB206 Armored Integral Cable

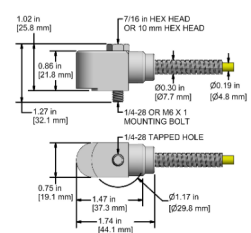
Conductor	Polarity
Red	(+) Power/Signal
Black	(-) Common
Shield	Cable Drain Wire



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	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak	Electromagnetic Sensitivity		CE
<b>Electrical</b>			Sealing		Welded, Hermetic
Settling Time		<2 Seconds	Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)		18-30 VDC	<b>Physical</b>		
Constant Current Excitation		2-10 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		8 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		4 µg/√Hz	Weight	3.3 oz	93 grams
Spectral Noise @ 1000 Hz		2 µg/√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 <sup>8</sup> 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	M6x1 Captive