

AC194 Series

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



Yekan

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Product Features

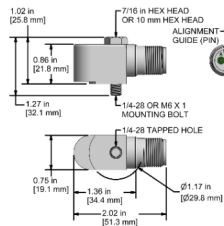
High Performance in an Affordable, Side-Exit, Compact Sensor

Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 10%
± 80g Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable.
Note: Integral Cable Options are Only for Permanent Monitoring Applications
- ▶ -6N Integral Cable Option Features Food-Safe, FDA-Compliant 21 CFR 177.1330 Polyolefin Heat Shrink

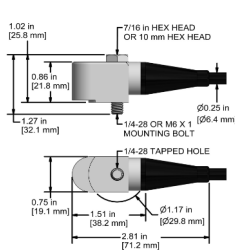
AC194-1D 2 Pin Connector

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



AC194-2D CB103 Integral Cable

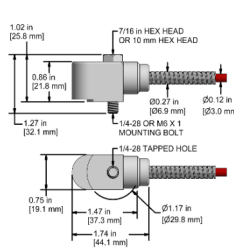
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC194-3D CB206 Armored Integral Cable

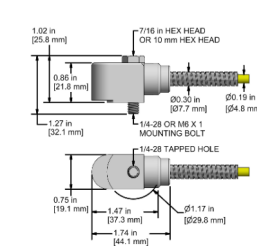
Conductor	Polarity
Red	(+) Power/Signal
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC194-6D CB611 Heavy Duty Armored Integral Cable

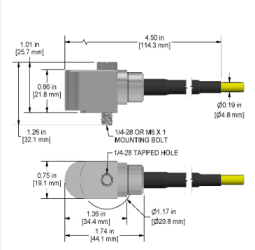
Conductor	Polarity
Red	(+) Power/Signal
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC194-6N CB111 Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC194	M/AC194	<u>Environmental</u>		
Sensitivity (±10%)	100 mV/g		Operating 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 *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
<u>Electrical</u>			Sealing	Welded, Hermetic	
Settling Time	<2 Seconds		Submersible Depth	200 ft.	60 m
Voltage Source	18-30 VDC		SIL Rating	SIL 2	
Constant Current Excitation	2-10 mA		<u>Physical</u>		
Spectral Noise @ 10 Hz	8 µg/√Hz		Sensing Element	PZT Ceramic	
Spectral Noise @ 100 Hz	4 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Weight	3.3 oz	93 grams
Output Impedance	<100 ohm		Case Material	316L Stainless Steel	
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 Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response

