

AC294 Series

Premium Compact Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

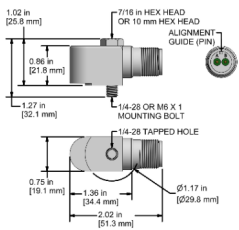
Superior RF Immunity in a Compact 100 mV/g Sensor

- ▶ ± 80 g, Dynamic Range
- ▶ 0.3 - 10,000 Hz (18 - 600,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC294-1D 2 Pin Connector

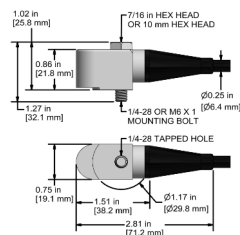
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC294-2D CB103 Integral Cable

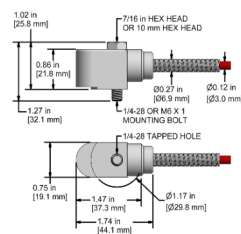
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC294-3D CB206 Armored Integral Cable

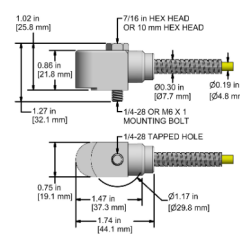
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC294-6D CB611 Heavy Duty Armored Integral Cable

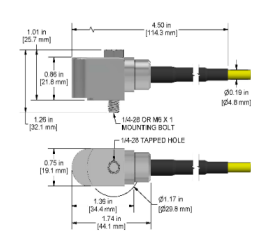
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC294-6N CB111 Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	AC294	M/AC294
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	18-600,000 CPM	0,3-10000 Hz
Frequency Response (±10%)	60-150,000 CPM	1,0-2500 Hz
Frequency Response (±5%)	600-120,000 CPM	10-2000 Hz
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias	

Electrical

Settling Time	<2 Seconds
Voltage Source (IEPE)	18-30 VDC
Constant Current Excitation	2-10 mA
Spectral Noise @ 10 Hz	8 µg/vHz
Spectral Noise @ 100 Hz	4 µg/vHz
Spectral Noise @ 1000 Hz	2 µg/vHz
Output Impedance	<100 ohm
Bias Output Voltage	10-14 VDC
Case Isolation	>10 ⁸ ohm

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.3 oz	93 grams
Case Material	316L Steel	
Connector (Non-Integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,200,000 CPM	20000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
	1/4-28	M6x1