

# 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

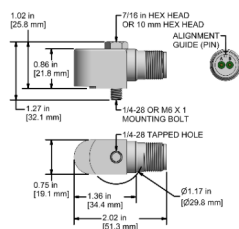
- ▶ ± 80 g, Dynamic Range
- ▶ 0.3 - 10,000 Hz (18 - 600,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

### AC294-1D

2 Pin Connector

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

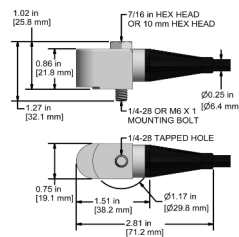


Stock Product

### AC294-2D

CB103 Integral Cable

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

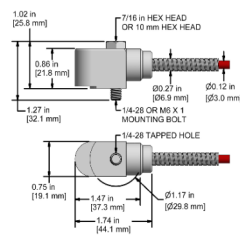


Built To Order

### AC294-3D

CB206 Armored Integral Cable

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

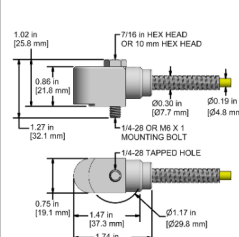


Built To Order

### AC294-6D

CB611 Heavy Duty Armored Integral Cable

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

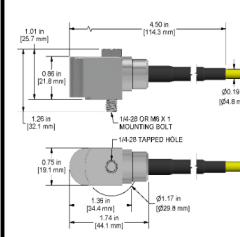


Built To Order

### AC294-6N

CB111 Integral Cable

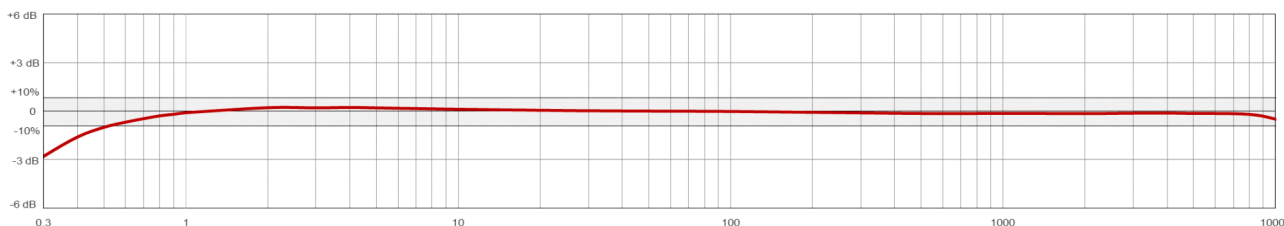
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC294	M/AC294	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	18-600,000 CPM	0.3-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-150,000 CPM	1.0-2500 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±5%)	600-120,000 CPM	10-2000 Hz	Sealing		Welded, Hermetic
Dynamic Range		± 80 g, peak	Submersible Depth	200 ft.	60 m
<b>Electrical</b>			<b>Physical</b>		
Settling Time	<2 Seconds		Sensing Element		PZT Ceramic
Voltage Source (IEPE)	18-30 VDC		Sensing Structure		Shear Mode
Constant Current Excitation	2-10 mA		Weight	3.3 oz	93 grams
Spectral Noise @ 10 Hz	8 µg/vHz		Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz	4 µg/vHz		Mounting		1/4-28
Spectral Noise @ 1000 Hz	2 µg/vHz		Connector (Non-Integral)		2 Pin MIL-C-5015
Output Impedance	<100 ohm		Resonant Frequency	1,200,000 CPM	20000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 <sup>5</sup> ohm		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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