

# AC184 Series

Multi-Purpose Accelerometer, M8 Captive Bolt, Side Exit Connector/Cable, 100 mV/g



VIBRATION ANALYSIS HARDWARE



## Product Features

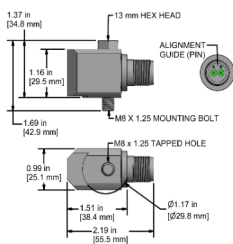
Perfect for M8 Mounting Applications  
High Performance in a Low Cost Sensor

- ▶ 100 mV/g Sensitivity,  $\pm 10\%$
- ▶  $\pm 50$  g, Peak Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable

### AC184-1A

2 Pin Connector

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

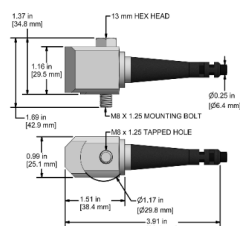


Stock Product

### AC184-2C

CB103 Integral Cable

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

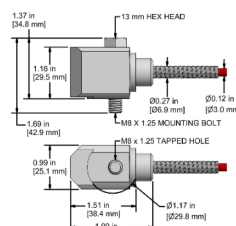


Built To Order

### AC184-3C

CB206 Armored Integral Cable

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

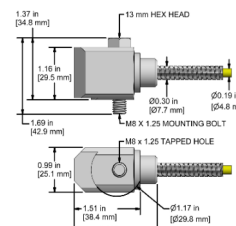


Built To Order

### AC184-6C

CB611 Heavy Duty Armored Integral Cable

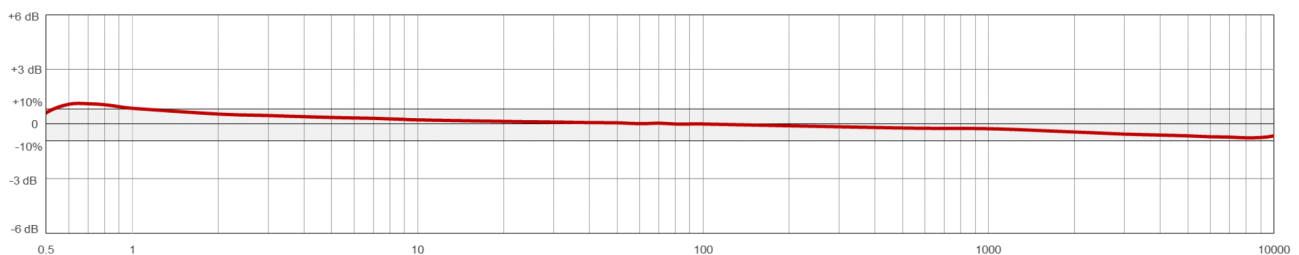
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity ( $\pm 10\%$ )		100 mV/g	<b>Environmental</b>		
Frequency Response ( $\pm 3$ dB)	30-600,000 CPM	0.5-10000 Hz	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 10\%$ )	120-300,000 CPM	2.0-5000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		$\pm 50$ g, peak	Electromagnetic Sensitivity		CE
<b>Electrical</b>			Sealing		Welded, Hermetic
Settling Time	<2.5 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	14 $\mu\text{g}/\sqrt{\text{Hz}}$		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2.3 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	6 oz	170 grams
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting		M8
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation	> $10^8$ ohm		Resonant Frequency	1,200,000 CPM	20000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware		M8 Captive Bolt
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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