

AC184 Series

Multipurpose Accelerometer, Side Exit 2 Pin Connector, M8x1.25 Captive Bolt, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



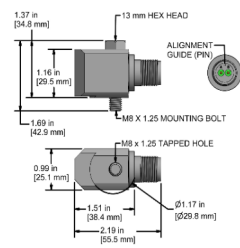
Product Features

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

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80 g, peak Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable

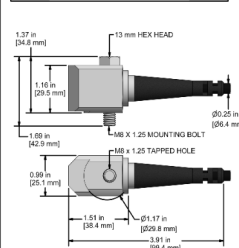
AC184-1A 2 Pin Connector

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



AC184-2C CB103 Integral Cable

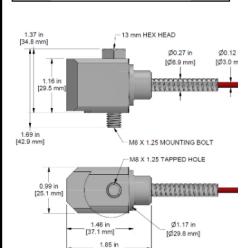
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC184-3C CB206 Armored Integral Cable

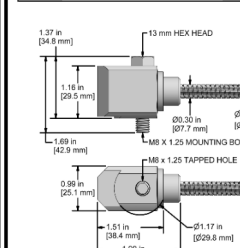
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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 (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-600,000 CPM		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Maximum Shock Protection		5,000 g, peak
Electrical			Electromagnetic Sensitivity		CE
Settling Time		<2.5 seconds	Sealing		Welded, Hermetic
Voltage Source		18-30 VDC	Submersible Depth	200 ft.	60 m
Constant Current Excitation		2-10 mA	SIL Rating		SIL 2
Spectral Noise @ 10 Hz		14 µg/√Hz	Physical		
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Sensing Element		PZT Ceramic
Spectral Noise @ 1000 Hz		2 µg/√Hz	Sensing Structure		Shear Mode
Output Impedance		<100 ohm	Weight	6 oz	170 grams
Bias Output Voltage		10-14 VDC	Case Material		316L Stainless Steel
Case Isolation		>10 ⁸ ohm	Mounting Thread		M8x1.25
			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
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

Typical Frequency Response

