

# AC198 Series

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



VIBRATION ANALYSIS HARDWARE



## Product Features

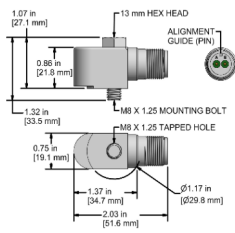
High Performance in an Affordable, Side Exit Compact Sensor

Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80g Dynamic Range
- ▶ Standard 2 Pin MIL Connection on Non-Integral Option

### AC198-1D 2 Pin Conector

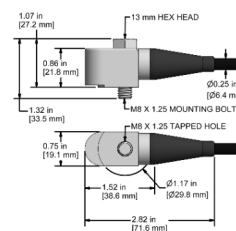
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC198-2D CB103 Integral Cable

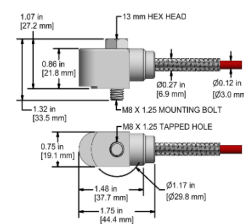
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC198-3D CB206 Armored Integral Cable

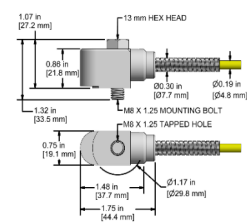
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC198-6D 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	<u>Environmental</u>		
Frequency Response (±3dB)	30-480,000 CPM	0.5-80000	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	
<u>Electrical</u>			Electromagnetic Sensitivity	CE	
Settling Time	<2 Seconds		Sealing	Welded, Hermetic	
Voltage Source (IEPE)	18-30 VDC		Submersible Depth	200 ft.	60 m
Constant Current Excitation	2-10 mA		SIL Rating	SIL 2	
Spectral Noise @ 10 Hz	8 µg/√Hz		<u>Physical</u>		
Spectral Noise @ 100 Hz	4 µg/√Hz		Sensing Element	PZT	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Sensing Structure	Shear Mode	
Output Impedance	<100 ohm		Weight	3.4 oz	96 grams
Bias Output Voltage	10-14 VDC		Case Material	316L Stainless Steel	
Case Isolation	>10 <sup>8</sup> ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
			Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm