

AC198 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

High Performance in an Affordable, Side-Exit, Compact Sensor

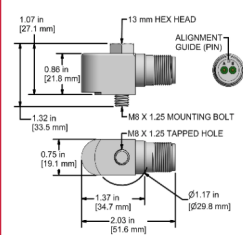
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, $\pm 10\%$
 $\pm 80g$ Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable.
Note: Integral Cable Options are Only for Permanent Monitoring Applications
- ▶ -6N Integral Cable Option Features Food-Safe, FDA-Compliant 21 CFR 177.1330 Polyolefin Heat Shrink

AC198-1D

2 Pin Connector

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

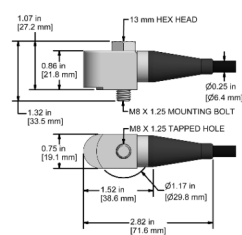


Stock Product

AC198-2D & -7A

2D = CB103 Integral Cable
7A = CB124 Integral Cable

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

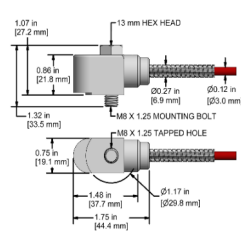


Built To Order

AC198-3D

CB206 Armored Integral cable

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

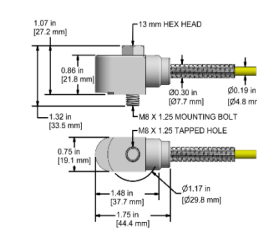


Built To Order

AC198-6D

CB611 Heavy Duty Armored Integral Cable

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

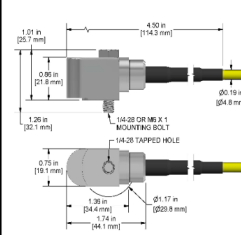


Built To Order

AC198-6N

CB111 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	<u>Environmental</u>		
Frequency Response ($\pm 3dB$)	30-480,000 CPM	0.5-8000 Hz	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Dynamic Range	$\pm 80 g$, peak *Vsource $\geq 22V$, 12Vbias		Maximum Shock Protection		5,000 g, peak
Transverse Sensitivity	$\leq 5\%$		Electromagnetic Sensitivity		CE
<u>Electrical</u>			Sealing		Welded, Hermetic
Settling Time	<2 Seconds		Submersible Depth	200 ft.	60 m
Voltage Source	18-30 VDC		SIL Rating		SIL 2
Constant Current Excitation	2-10 mA		<u>Physical</u>		
Spectral Noise @ 10 Hz	8 $\mu g/\sqrt{Hz}$		Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz	4 $\mu g/\sqrt{Hz}$		Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz	2 $\mu g/\sqrt{Hz}$		Weight	3.4 oz	96 grams
Output Impedance	<100 ohm		Case Material		316L Stainless Steel
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,380,000 CPM	23000 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

