

AC198 Series

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



Product Features

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

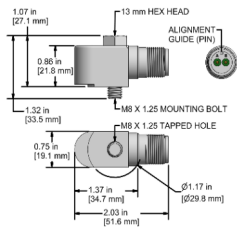
Very Low Noise and Superior RF Immunity

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

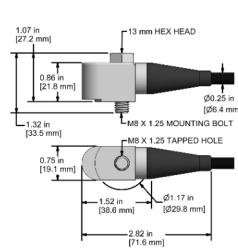
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



AC198-2D

CB103 Integral Cable

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

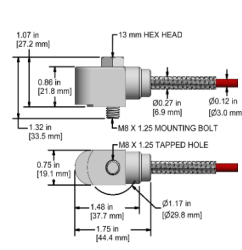


Built To Order

AC198-3D

CB206 Armored Integral cable

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

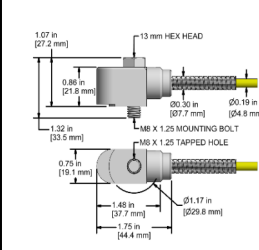


Built To Order

AC198-6D

CB611 Heavy Duty Armored Integral Cable

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

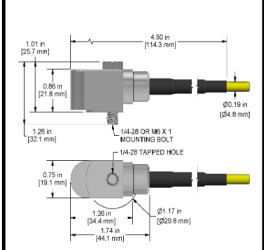


Built To Order

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 (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-480,000 CPM		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12V/bias	Maximum Shock Protection		5,000 g, peak
Electrical			Electromagnetic Sensitivity		CE
Settling Time		<2 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		8 µg/√Hz	Physical		
Spectral Noise @ 100 Hz		4 µg/√Hz	Sensing Element		PZT Ceramic
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 ⁸ 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
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

Typical Frequency Response

