

AC298 Series

Premium Compact Multipurpose Accelerometer, Side Exit 2 Pin Connector, M8x1.25 Captive Bolt, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Premium Performance in a Compact, Side Exit Sensor

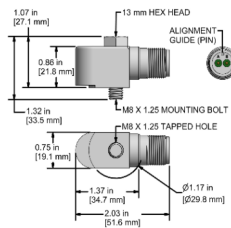
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 5%
- ▶ ± 80g Dynamic Range
- ▶ Standard 2 Pin MIL Connection on Non-Integral Option

AC298-1D

2 Pin Connector

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

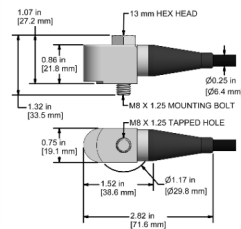


Stock Product

AC298-2D

CB103 Integral Cable

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

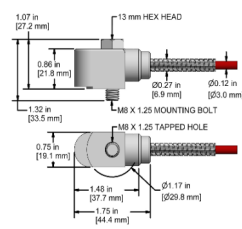


Built To Order

AC298-3D

CB206 Armored Integral cable

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

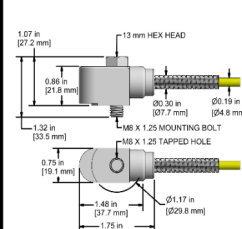


Built To Order

AC298-6D

CB611 Heavy Duty Armored Integral Cable

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

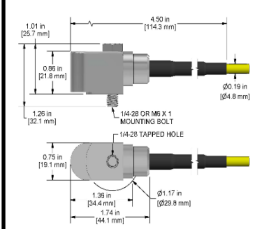


Built To Order

AC298-6N

CB111 Integral Cable

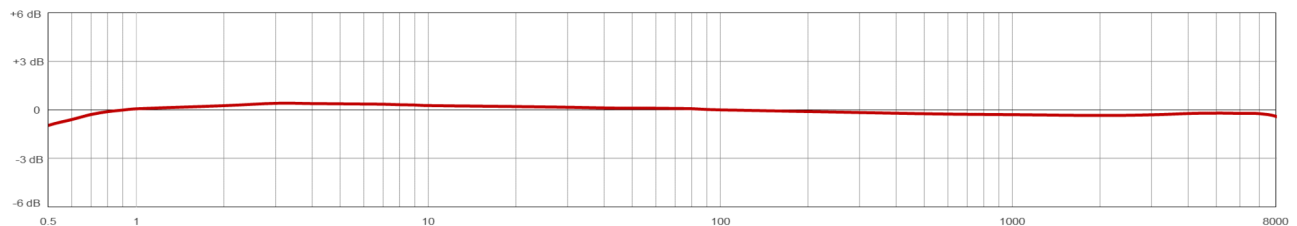
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±5%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-480,000 CPM	0.5-8000 Hz	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±10%)	60-150,000 CPM	1.0-2500 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±5%)	600-120,000 CPM	10-2000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	8 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	4 µg/√Hz		Weight	3.4 oz	96 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 ⁹ ohm		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



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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