AC198 Series
Compact, Multi-Purpose Accelerometer, Side Exit Connector/Cable, 100 mVg

VIBRATION ANALYSIS HARDWARE

REGULATORY APPROVALS

CE

PRODUCT FEATURES

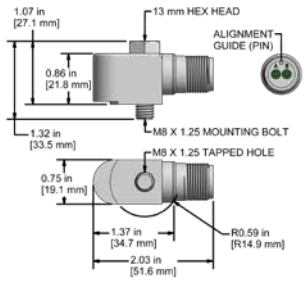
High Performance in an Affordable, Side Exit Compact Sensor

Very Low Noise & Superior RF Immunity

M8 Captive Bolt

AC198-1D
2 Pin Connector

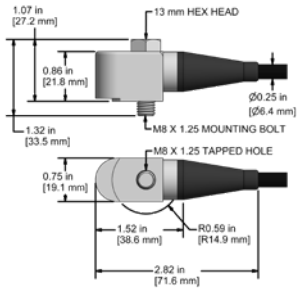
Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common



STOCK PRODUCT

AC198-2D
Integral Cable

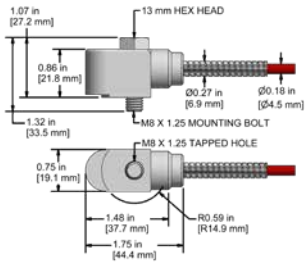
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



BUILD TO ORDER

AC198-3D
Armored Integral Cable

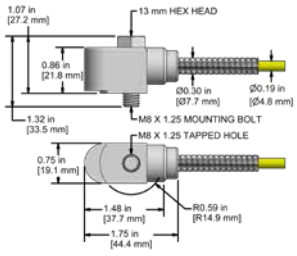
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



BUILD TO ORDER

AC198-6D
Heavy Duty Armored Integral Cable

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



BUILD TO ORDER

Specifications	Standard	Metric
Part Number	AC198	
Vibration		
Sensitivity (± 10 %)	100 mV/g	
Frequency Response (± 3 dB)	30 CPM to 480 kCPM	0.5 Hz to 8 kHz
Dynamic Range	± 80 g, peak	
Electrical		
Settling Time	< 2 seconds	
Voltage Source (IEPE)	18 Vdc to 30 Vdc	
Constant Current Excitation	2 mA to 10 mA	
Spectral Noise @ 10 Hz	8 µg/√Hz	
Spectral Noise @ 100 Hz	4 µg/√Hz	
Spectral Noise @ 1 kHz	2 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10 Vdc to 14 Vdc	
Case Isolation	> 10^8 ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58°F to 250°F	-50°C to 121°C
Maximum Shock Protection	5 kg, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic (IP68)	
Submersible Depth (AC198-2D/3D/6D)	200 ft	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.3 ounces	93 grams
Case Material	316L Stainless Steel	
Mounting	Captive Bolt	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1380 kCPM	23 kHz
Mounting Torque	2 ft·lb to 5 ft·lb	2.7 N·m to 6.8 N·m
Mounting Hardware	M8 Captive Bolt	
Calibration Certificate	CA10	

TYPICAL FREQUENCY RESPONSE