

AC102 Series

Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

Affordably Priced, Hermetically Sealed Sensors

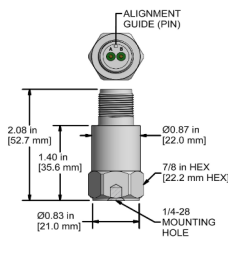
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC102-1A 2 Pin Connector

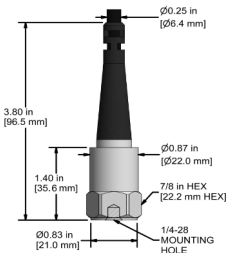
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC102-2C CB103 Integral Cable

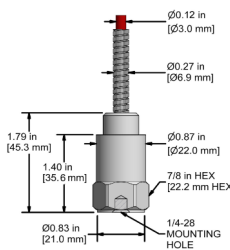
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC102-3C CB206 Armored Integral Cable

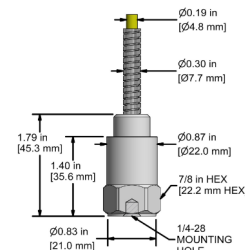
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC102-6C 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
Part Number	AC102	M/AC102	Environmental		
Sensitivity (±10%)		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-600,000 CPM	2.0-10000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 50 g, peak	Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time		<2.5 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		14 µg/√Hz	Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz		2 µg/√Hz	Case Material	316L Stainless Steel	
Output Impedance		<100 ohm	Mounting	1/4-28	
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