

# AC102 Series

Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g,  $\pm 10\%$



## Product Features

Affordably Priced, Hermetically Sealed Sensors

Perfect for Thousands of Applications

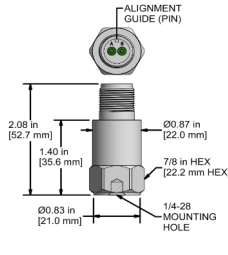
- ▶ 100 mV/g Sensitivity
- ▶  $\pm 80$  g, peak Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

### AC102-1A

2 Pin Connector

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

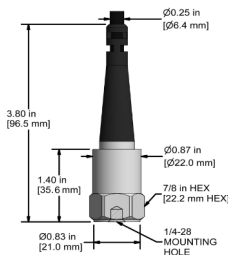


Stock Product

### AC102-2C

CBT03 Integral Cable

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

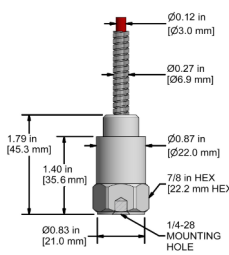


Built To Order

### AC102-3C

CB206 Armored Integral Cable

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

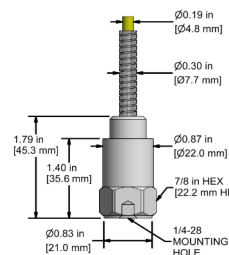


Built To Order

### 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	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 3$ dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ( $\pm 10\%$ )	120-600,000 CPM	2.0-10000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		$\pm 80$ g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-30 VDC		<b>Physical</b>		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	14 $\mu\text{g}/\sqrt{\text{Hz}}$		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2.3 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		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 <sup>8</sup> ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response

