

AC102 Series

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



Product Features

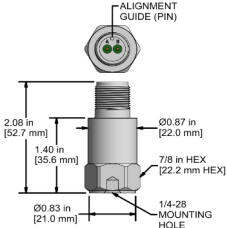
CTC's Best Selling, Multi-Purpose Sensor
Ideally Suited for Thousands of Applications

Qualifies for Free Annual Recalibration

- Wide frequency response range and ±80 g dynamic range enables the user to identify bearing faults at both slower and higher speeds

AC102-1A
2 Pin Connector

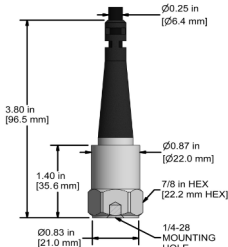
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common



Stock Product

AC102-2C
CB103 Integral Cable

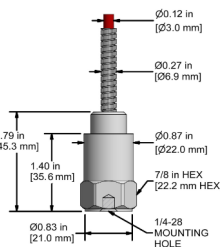
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC102-3C
CB206 Armored Integral Cable

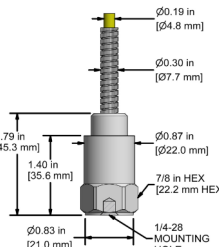
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC102-6C
CB611 Heavy Duty Armored Integral Cable

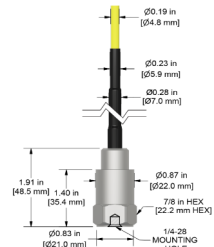
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC102-6N
CB111 FEP Jacketed Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	AC102	M/ or M8/AC102
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-900,000 CPM	0,5-15000 Hz
Frequency Response (±10%)	120-600,000 CPM	2,0-10000 Hz
Dynamic Range	± 80 g, peak *Vsource ≤ 5V, 12Vbias	

Electrical

Settling Time	<2.5 seconds
Voltage Source (IEPE)	18-30 VDC
Constant Current Excitation	2-10 mA
Spectral Noise @ 10 Hz	14 µg/√Hz
Spectral Noise @ 100 Hz	2.3 µg/√Hz
Spectral Noise @ 1000 Hz	2 µg/√Hz
Output Impedance	<100 ohm
Bias Output Voltage	10-14 VDC
Case Isolation	>10 ⁸ ohm

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.2 oz	90 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Blind Tapped Hole	
Connector (Non-Integral)	2 Pin MIL-C-5015	