

AC102 Series

Multi-Purpose Accelerometer, Top Exit Connector/Cable, 100 mV/g



Actual Product Size Shown



Product Features

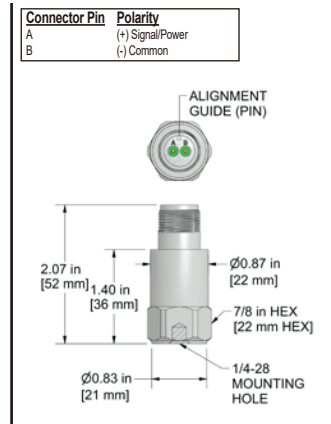
CTC's Most Popular Sensor!

High Performance in a Low Cost Sensor

- Standard 2 Pin MIL Connection
- Perfect for Thousands of Applications
- Affordably Priced, Hermetically Sealed Sensors

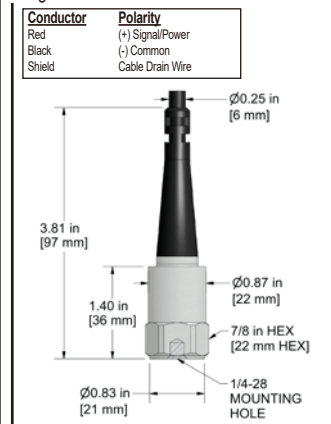
AC102-1A

2 Pin Connector



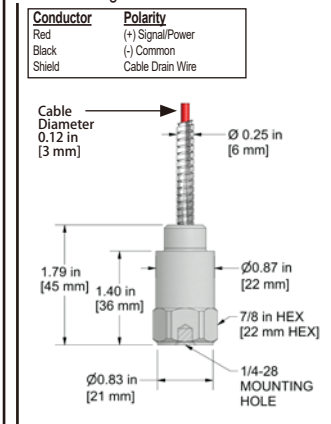
AC102-2C

Integral Cable



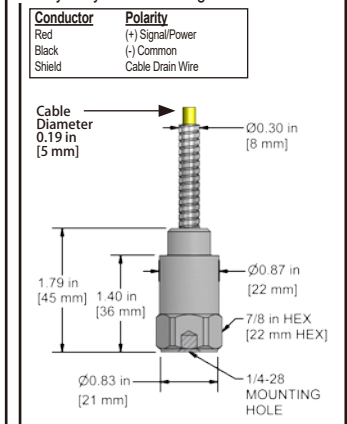
AC102-3C

Armored Integral Cable



AC102-6C

Heavy Duty Armored Integral Cable



Specifications	Standard	Metric
Part Number	AC102	M/AC102
Sensitivity ($\pm 10\%$)	100 mV/g	
Frequency Response ($\pm 3dB$)	30-900,000 CPM	0.5-15000 Hz
Frequency Response ($\pm 10\%$)	120-600,000 CPM	2.0-10000 Hz
Dynamic Range	± 50 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	14 μ g/ \sqrt Hz	
Spectral Noise @ 100 Hz	2.3 μ g/ \sqrt Hz	
Spectral Noise @ 1000 Hz	2 μ g/ \sqrt Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC102-2C/3C)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.2 oz	90 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
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	

Ordering Information

Standard	AC102-1A (1/4-28 Stud)	AC102-2C - / (1/4-28 Stud)	AC102-3C - / (1/4-28 Stud)	AC102-6C - / (1/4-28 Stud)
Metric	M/AC102-1A (M6x1 Adapter Stud)	M/AC102-2C - / (M6x1 Adapter Stud)	M/AC102-3C - / (M6x1 Adapter Stud)	M/AC102-6C - / (M6x1 Adapter Stud)

Cable Termination Options:

