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

Actual Product Size Shown

Product Features

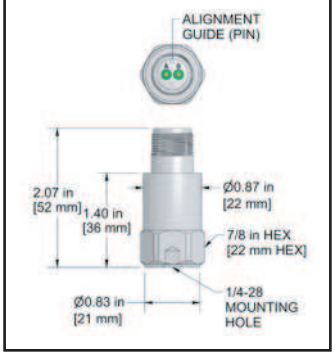
CTC's Most Popular Sensor!

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

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

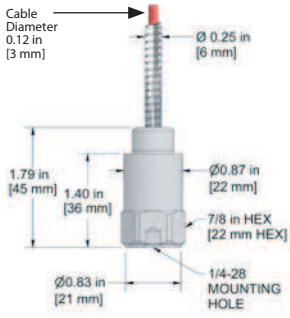


AC102-2C
Integral Cable

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

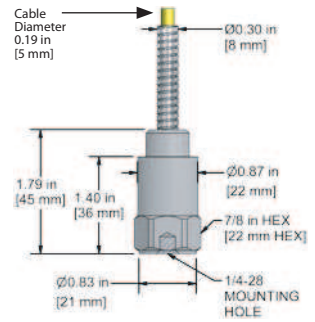
AC102-3C
Armored Integral Cable

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



AC102-6C
Heavy Duty Armored Integral Cable

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



Specifications	Standard	Metric
Part Number	AC102	M/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	± 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 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		
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) Stock Product	AC102-2C - / (1/4-28 Stud) Build To Order	AC102-3C - / (1/4-28 Stud) Build To Order	AC102-6C - / (1/4-28 Stud) Build To Order	
		[ ][ ][ ] - [ ] (length in feet) (termination)	[ ][ ][ ] / [ ][ ][ ] - [ ] (maximum armor length 100 ft.) (cable length in feet) (termination)	[ ][ ][ ] - [ ][ ][ ] - [ ] (maximum armor length 20 ft.) (cable length in feet) (termination)	
Metric	M/AC102-1A (M6x1 Adapter Stud) Stock Product	M/AC102-2C - / (M6x1 Adapter Stud) Build To Order	M/AC102-3C - / (M6x1 Adapter Stud) Build To Order	M/AC102-6C - / (M6x1 Adapter Stud) Build To Order	
		[ ][ ][ ] - [ ] (length in feet) (termination) [ ][ ][ ] M - [ ] (length in meters) (termination)	[ ][ ][ ] / [ ][ ][ ] - [ ] (maximum armor length 100 ft.) (cable length in feet) (termination) [ ][ ][ ] M / [ ][ ][ ] M / [ ] (maximum armor length 30 m) (cable length in meters) (termination)	[ ][ ][ ] - [ ][ ][ ] - [ ] (maximum armor length 20 ft.) (cable length in feet) (termination) [ ][ ][ ] M / [ ][ ][ ] M - [ ] (maximum armor length 6 m) (cable length in meters) (termination)	

Cable Termination Options: E F L Z

Backed by our Unconditional Lifetime Warranty