

AC102 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

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

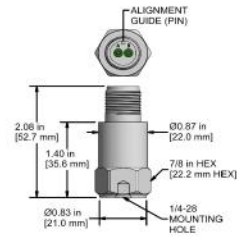
Qualifies for Free Annual Recalibration

- ▶ 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 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

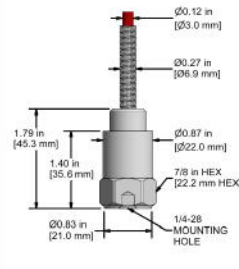


Built To Order

AC102-3C

CB206 Armored Integral Cable

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

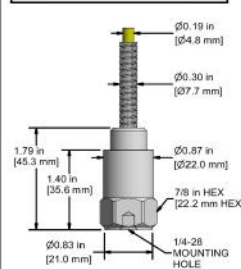


Built To Order

AC102-6C

CB611 Heavy Duty Armored Integral Cable

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

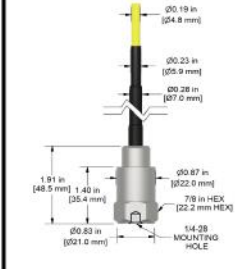


Built To Order

AC102-6N

CB111 FEP Jacketed Integral Cable

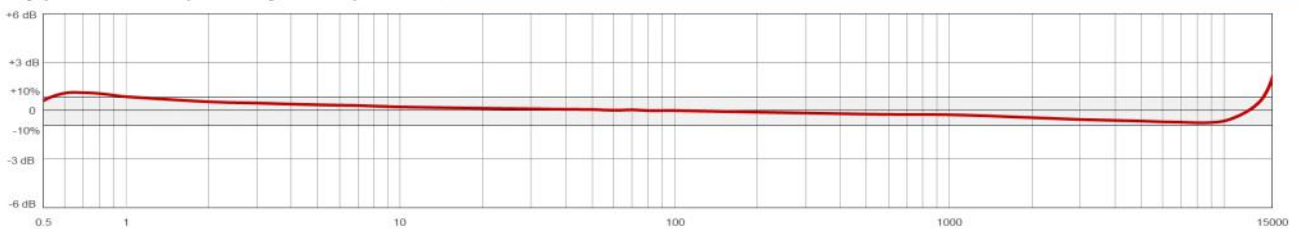
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC102	M/AC102	Environmental		
Sensitivity (±10%)		100 mV/g	Operating 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		± 80 g, peak *Vsource ≥ 22V, 12Vbias	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 Thread		1/4-28 Blind Tapped Hole
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
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



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AC102-M12A Series

Multipurpose Accelerometer, Top Exit 4 Pin M12 Connector, 100 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Affordably Priced, Hermetically Sealed Sensors

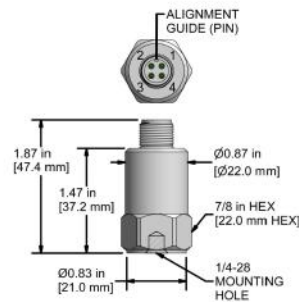
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶ ± 80 g, peak Dynamic Range
- ▶ Common M12 Connection

AC102-M12A

4 Pin Connector

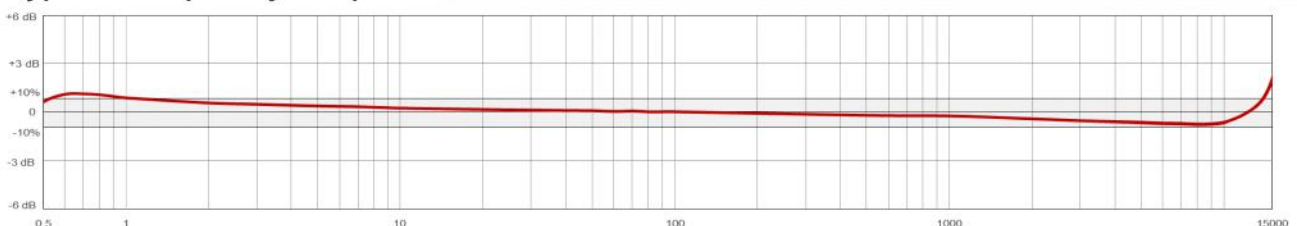
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC102-M12A	M/AC102-M12A	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121 °C
Frequency Response (± 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	± 80 g, peak *Vsource ≥ 22 V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	14 μ g/ $\sqrt{\text{Hz}}$		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2.3 μ g/ $\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt{\text{Hz}}$		Mounting Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	4 Pin M12	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



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AC104 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

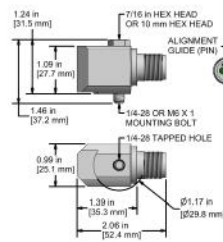
Affordably Priced, Hermetically Sealed Sensors
Perfect for Thousands of Applications

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

AC104-1A

2 Pin Connector

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

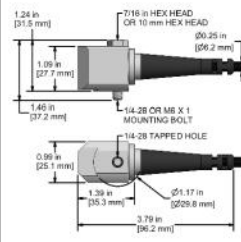


Stock Product

AC104-2C

CB103 Integral Cable

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

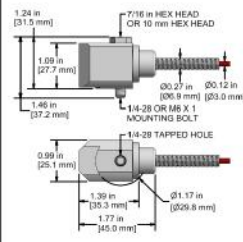


Built To Order

AC104-3C

CB206 Armored Integral Cable

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

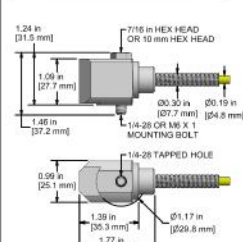


Built To Order

AC104-6C

CB611 Heavy Duty Armored Integral Cable

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

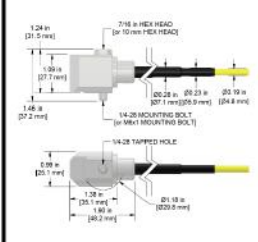


Built To Order

AC104-6N

CB111 FEP Jacketed Integral Cable

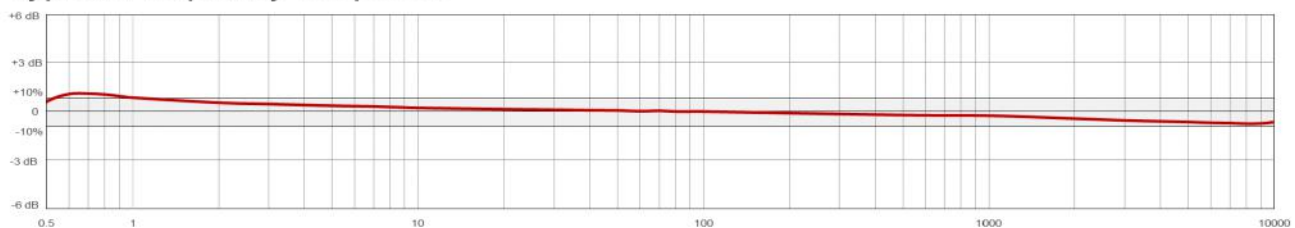
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC104	M/AC104	Environmental		
Sensitivity ($\pm 10\%$)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (± 3 dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	120-420,000 CPM	2.0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak *Vsource ≥ 22 V, 12Vbias	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 μ g/ \sqrt Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2.3 μ g/ \sqrt Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 1000 Hz	2 μ g/ \sqrt Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



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AC104-M12A Series

Multipurpose Accelerometer, Side Exit 4 Pin M12 Connector, 100 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Affordably Priced, Hermetically Sealed Sensors

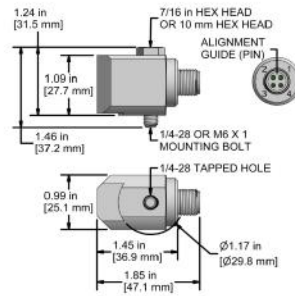
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶ ± 80 g, peak Dynamic Range
- ▶ Common M12 Connection

AC104-M12A

4 Pin Connector

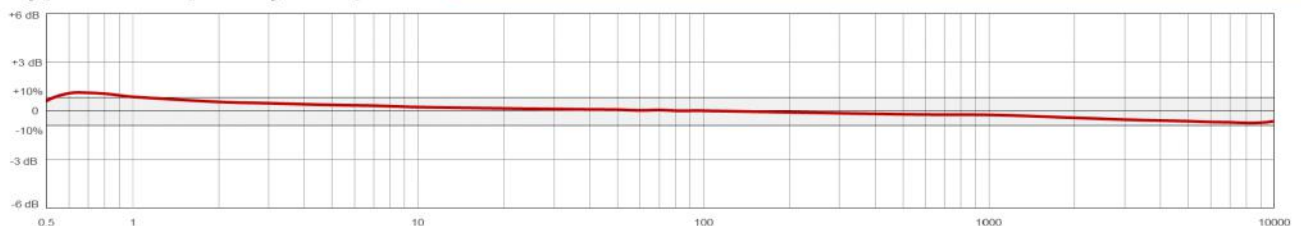
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC104-M12A	M/AC104-M12A	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121 °C
Frequency Response (± 3 dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	120-420,000 CPM	2.0-7000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource \geq 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	14 μ g/ \sqrt Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	2.3 μ g/ \sqrt Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 μ g/ \sqrt Hz		Connector (Non-Integral)	4 Pin M12	
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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AC116 Series

Magnet Mount Accelerometer, Side Exit 2 Pin Connector, 1/4-28
Integral Mounting Stud, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

Standard, Route-Based Sensor

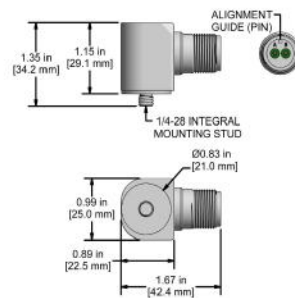
Excellent Sensor for Trending

- ▶ Specifically Designed to Use with MH214-3A Magnet
- ▶ Comfortable Ergonomic Design Makes Data Collection Easy
- ▶ ± 80 g, peak Dynamic Range

AC116-1A

2 Pin Connector

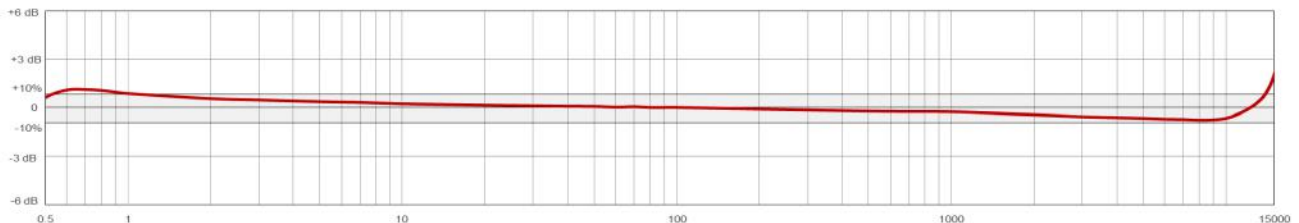
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	120-600,000 CPM	2.0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
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	4.4 oz	124 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting Thread		1/4-28 Integral Stud
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
			Calibration Certificate		CA10

Typical Frequency Response



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AC150 Series

Low Cost, Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±20%



VIBRATION ANALYSIS HARDWARE



Product Features

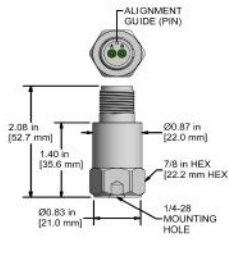
Low Cost Accelerometer - Perfect for Permanent Mounting
Excellent Choice for Budget Conscious Data Collection

- ▶ ± 80 g, peak Dynamic Range
- ▶ 1-10000 Hz (60-600,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable

AC150-1A

2 Pin Connector

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



Stock Product

AC150-2C

CB103 Integral Cable

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

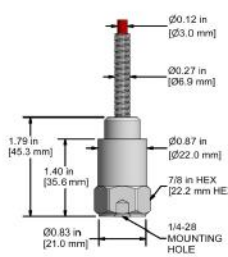


Built To Order

AC150-3C

CB206 Armored Integral Cable

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

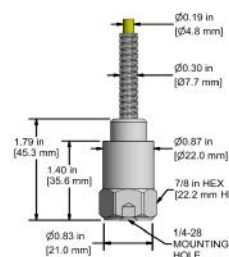


Built To Order

AC150-6C

CB611 Heavy Duty Armored Integral Cable

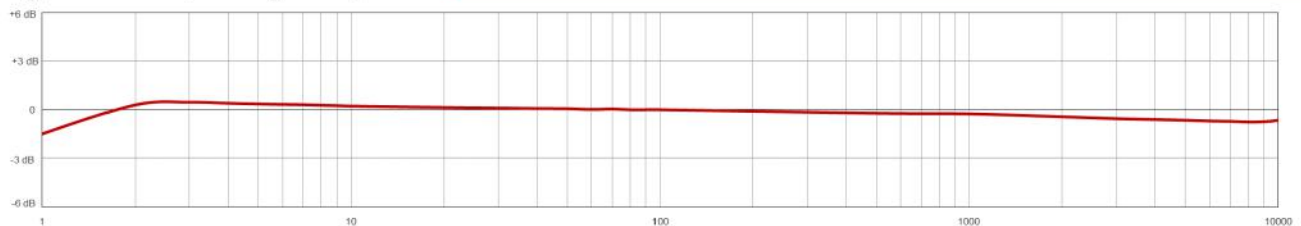
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC150	M/AC150	Environmental		
Sensitivity (±20%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12VBias	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
Settling Time		<2.5 seconds	Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)		18-30 VDC	SIL Rating		SIL 2
Constant Current Excitation		2-10 mA	Physical		
Spectral Noise @ 10 Hz		14 µg/√Hz	Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz		2 µg/√Hz	Weight	3.2 oz	90 grams
Output Impedance		<100 ohm	Case Material		316L Stainless Steel
Bias Output Voltage		10-14 VDC	Mounting Thread		1/4-28 Blind Tapped Hole
Case Isolation		>10 ⁸ ohm	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 Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



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AC154 Series

Low Cost, Multipurpose Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, $\pm 20\%$



VIBRATION ANALYSIS HARDWARE



Limited Availability



Product Features

Low Cost Side Exit Sensor

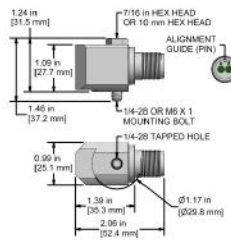
Economical Way to Trend Machinery

- ▶ ± 80 g, peak Dynamic Range
- ▶ 0.5 - 7000 Hz (30 - 420,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC154-1A 2 Pin Connector

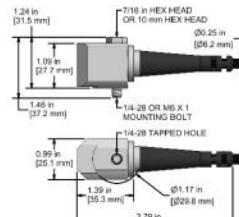
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC154-2C CB103 Integral Cable

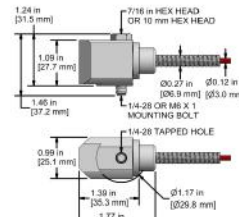
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC154-3C CB206 Armored Integral Cable

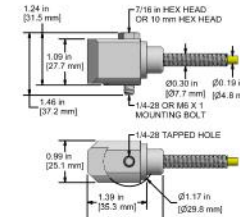
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC154-6C CB611 Heavy Duty Armored Integral Cable

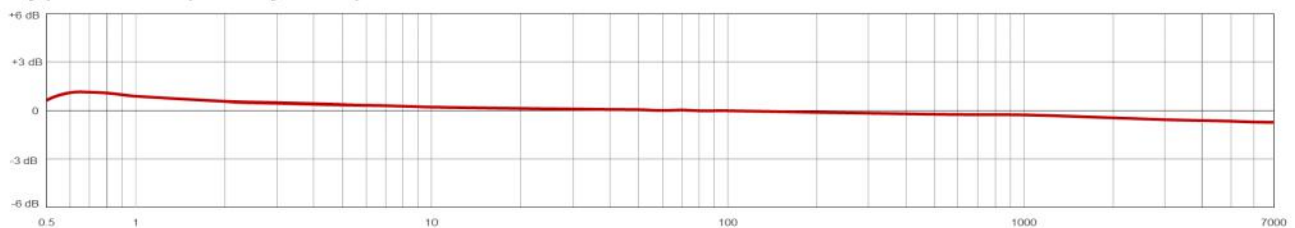
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC154	M/AC154	Environmental		
Sensitivity ($\pm 20\%$)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (± 3 dB)	30-420,000 CPM		Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22 V, 12Vbias	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
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 μ g/ $\sqrt{\text{Hz}}$	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2.3 μ g/ $\sqrt{\text{Hz}}$	Weight	5.1 oz	145 grams
Spectral Noise @ 1000 Hz		2 μ g/ $\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation		>10 ⁸ ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



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AC165 Series

Negative Voltage Accelerometer, Top Exit 3 Pin Connector, 100 mV/g, $\pm 5\%$



VIBRATION ANALYSIS HARDWARE

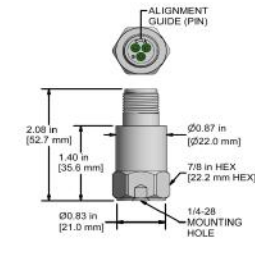


Product Features

- Comparable to Bently™ 330400
- 3 Wire Negative Voltage Sensor
- ▶ 100 mV/g Nominal Sensitivity
- ▶ $\pm 5\%$ Sensitivity Tolerance
- ▶ ± 80 g, Peak Dynamic Range

AC165-1A 3 Pin Connector

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



Stock Product

AC165-2C CB105 Integral Cable

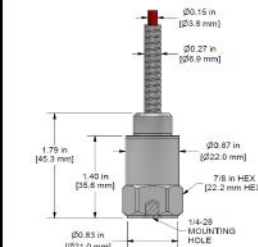
Conductor	Polarity
Red	(+) Signal
Black	(-) Power-Negative
White	(+) Common/Power
Shield	Cable Drain Wire



Built To Order

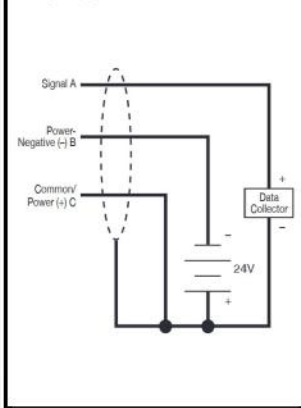
AC165-3C CB218 Armored Integral Cable

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



Built To Order

AC165 Wiring Diagram



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC165	M/AC165	Environmental		
Sensitivity ($\pm 5\%$)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (± 3 dB)	300-900,000 CPM	5,0-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	600-600,000 CPM	10,0-10000 Hz	Sealing		Welded, Hermetic
Dynamic Range		± 60 g, peak *Vsource ≤ -20 V, 8.5Vbias	SIL Rating		SIL 2
Electrical			Physical		
Settling Time		<2 Seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		-20 to -28 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		<1 mA	Weight	3.2 oz	90 grams
Broadband Noise Floor (10 to 15k Hz)		.002 g RMS	Case Material		316L Stainless Steel
Output Impedance		<5 ohm	Mounting Thread		1/4-28 Blind Tapped Hole
Bias Output Voltage		-8.5 VDC Nominal	Connector (Non-Integral)		3 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
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



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AC166 Series

Negative Voltage Accelerometer, Side Exit 3 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE

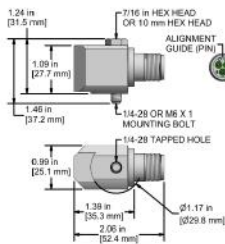


Product Features

- Comparable to Bently™ 330400
- 3 Wire Negative Voltage Sensor
- ▶ 100 mV/g Nominal Sensitivity
- ▶ ± 5% Sensitivity Tolerance
- ▶ ± 80 g, Peak Dynamic Range

AC166-1A 3 Pin Connector

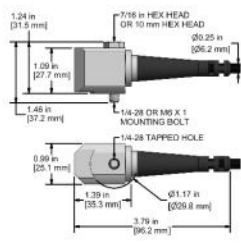
Connector Pin	Polarity
A	(+) Signal
B	(-) Power-Negative
C	(+) Common/Power



Stock Product

AC166-2C CB105 Integral Cable

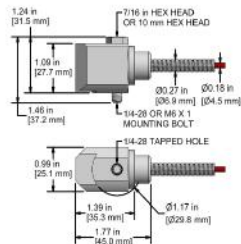
Conductor	Polarity
Red	(+) Signal
Black	(-) Common
White	(+) Common/Power
Shield	Cable Drain Wire



Built To Order

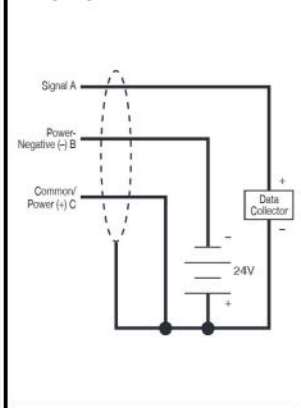
AC166-3C CB218 Armored Integral Cable

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



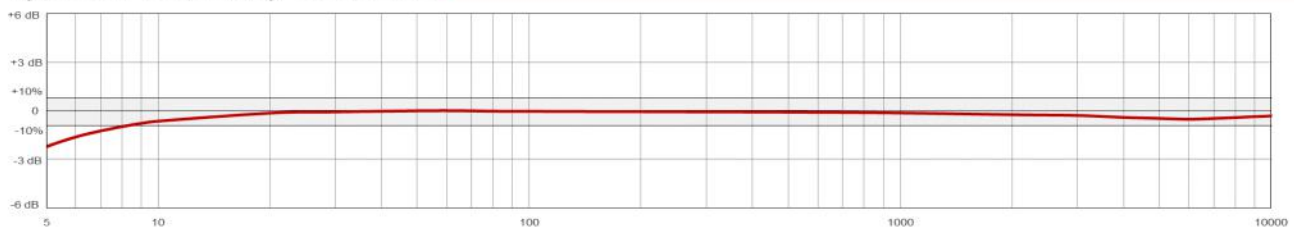
Built To Order

AC166 Wiring Diagram



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC166	M/AC166	Environmental		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	300-600,000 CPM	5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	600-180,000 CPM	10-3000 Hz	Sealing		Welded, Hermetic
Dynamic Range		± 60 g, peak *Vsource ≤ 20V, 8.5Vbias	SIL Rating		SIL 2
Electrical			Physical		
Settling Time		<2 Seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		-20 to -28 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		<1 mA	Weight	5.1 oz	145 grams
Broadband Noise Floor (10 to 15k Hz)		.002 g RMS	Case Material		316 Stainless Steel
Output Impedance		<5 ohm	Connector (Non-Integral)		3 Pin MIL-C-5015
Bias Output Voltage		-8.5 VDC Nominal	Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation		>10 ⁸ ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



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AC184 Series

Multipurpose Accelerometer, Side Exit 2 Pin Connector, M8x1.25
Captive Bolt, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

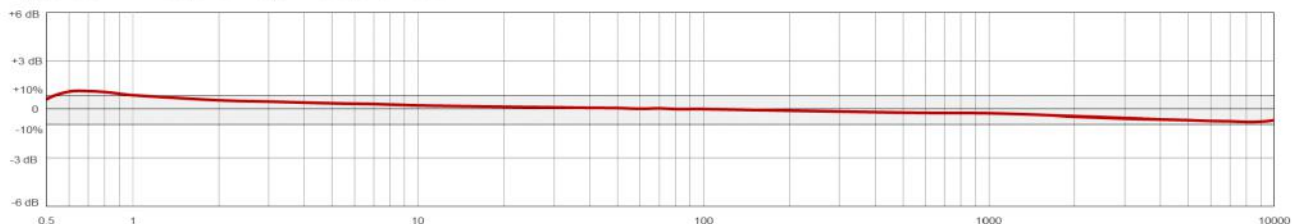
Perfect for M8 Mounting Applications
High Performance in a Low Cost Sensor

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80 g, peak Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable

AC184-1A 2 Pin Connector	AC184-2C CB103 Integral Cable	AC184-3C CB206 Armored Integral Cable	AC184-6C CB611 Heavy Duty Armored Integral Cable																														
<table border="1"> <tr><th>Connector Pin</th><th>Polarity</th></tr> <tr><td>A</td><td>(+) Signal/Power</td></tr> <tr><td>B</td><td>(-) Common</td></tr> </table> <p>Stock Product</p>	Connector Pin	Polarity	A	(+) Signal/Power	B	(-) Common	<table border="1"> <tr><th>Conductor</th><th>Polarity</th></tr> <tr><td>Red</td><td>(+) Signal/Power</td></tr> <tr><td>Black</td><td>(-) Common</td></tr> <tr><td>Shield</td><td>Cable Drain Wire</td></tr> </table> <p>Built To Order</p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire	<table border="1"> <tr><th>Conductor</th><th>Polarity</th></tr> <tr><td>Red</td><td>(+) Signal/Power</td></tr> <tr><td>Black</td><td>(-) Common</td></tr> <tr><td>Shield</td><td>Cable Drain Wire</td></tr> </table> <p>Built To Order</p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire	<table border="1"> <tr><th>Conductor</th><th>Polarity</th></tr> <tr><td>Red</td><td>(+) Signal/Power</td></tr> <tr><td>Black</td><td>(-) Common</td></tr> <tr><td>Shield</td><td>Cable Drain Wire</td></tr> </table> <p>Built To Order</p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire
Connector Pin	Polarity																																
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Shield	Cable Drain Wire																																

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-600,000 CPM	0,5-10000 Hz	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	120-300,000 CPM	2,0-5000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
Settling Time	<2.5 seconds		Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)	18-30 VDC		SIL Rating		SIL 2
Constant Current Excitation	2-10 mA		Physical		
Spectral Noise @ 10 Hz	14 µg/√Hz		Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz	2 µg/√Hz		Weight	6 oz	170 grams
Output Impedance	<100 ohm		Case Material		316L Stainless Steel
Bias Output Voltage	10-14 VDC		Mounting Thread		M8x1.25
Case Isolation	>10 ⁸ ohm		Connector (Non-Integral)		2 Pin MIL-C-5015
			Resonant Frequency	1,200,000 CPM	20000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

Typical Frequency Response



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AC184-M12A Series



VIBRATION ANALYSIS HARDWARE

Multipurpose Accelerometer, Side Exit M12 Connector, M8x1.25 Captive Bolt, 100 mV/g, ±10%



Product Features

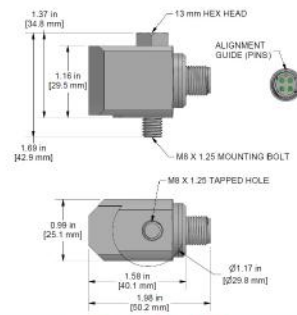
Perfect for M8 Mounting Applications
High Performance in a Low Cost Sensor

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80 g, peak Dynamic Range

AC184-M12A

4 Pin Connector

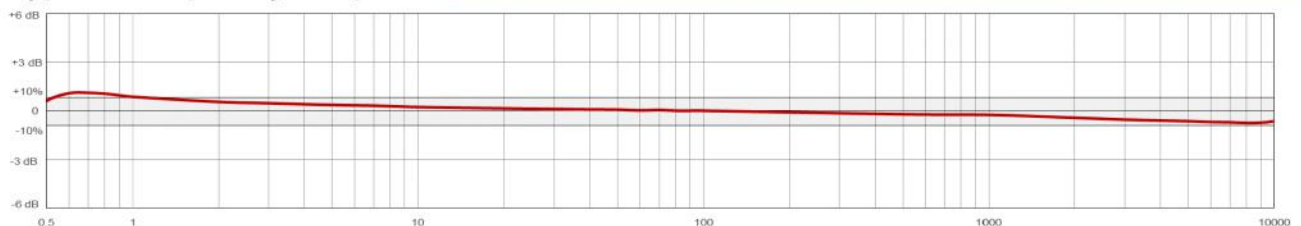
Connector Pin	Polarity
Pin 1	(+) Signal/Power
Pin 2	(-) Common
Pin 3	Not Used
Pin 4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	120-300,000 CPM	2.0-5000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *V _{source} ≥ 22V, 12V _{bias}	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
Settling Time	<2.5 seconds		Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)	18-30 VDC		SIL Rating		SIL 2
Constant Current Excitation	2-10 mA		Physical		
Spectral Noise @ 10 Hz	14 µg/√Hz		Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz	2 µg/√Hz		Weight	6 oz	170 grams
Output Impedance	<100 ohm		Case Material		316L Stainless Steel
Bias Output Voltage	10-14 VDC		Mounting Thread		M8x1.25
Case Isolation	>10 ⁸ ohm		Connector (Non-Integral)		2 Pin MIL-C-5015
			Resonant Frequency	1,200,000 CPM	20000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

Typical Frequency Response



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AC202 Series

Premium Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

High Performance Sensor for Demanding Applications

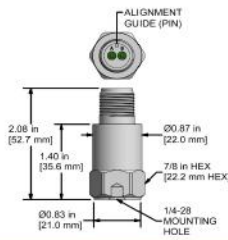
High Dynamic Range with Excellent Frequency Response

- ▶ ±80 g, Dynamic Range
- ▶ Excellent Bias Stability throughout operating temperature range

AC202-1A

2 Pin Connector

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

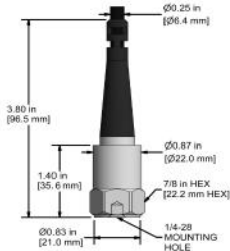


Stock Product

AC202-2A

CB103 Integral Cable

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

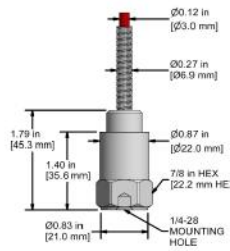


Built To Order

AC202-3A

CB206 Armored Integral Cable

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

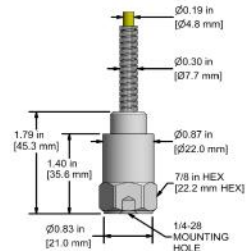


Built To Order

AC202-6A

CB611 Heavy Duty Armored Integral Cable

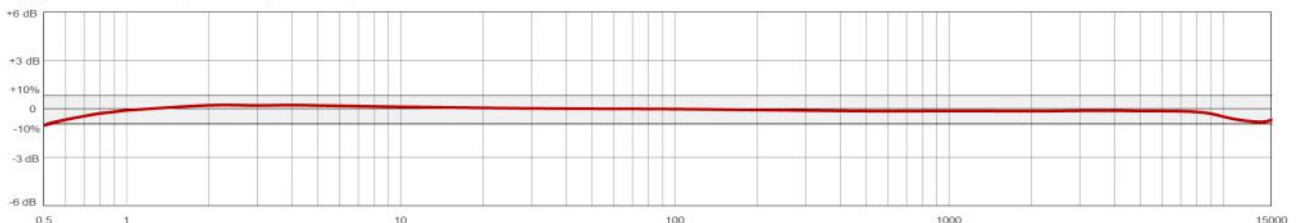
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC202	M/AC202	Environmental		
Sensitivity (±5%)		100 mV/g	Operating 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%)	60-420,000 CPM	1.0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	60 m
Settling Time		<2.0 seconds	Physical		
Voltage Source (IEPE)		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		8 µg/√Hz	Weight	3.2 oz.	90 grams
Spectral Noise @ 100 Hz		4 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		2 µg/√Hz	Mounting Thread		1/4-28 Blind Tapped Hole
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,560,000 CPM	26000 Hz
Case Isolation		>10 ⁸ ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Dielectric Breakdown Voltage		SIL 2	Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



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AC211 Series

Premium Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

High Performance Side Exit Sensor for Demanding Applications

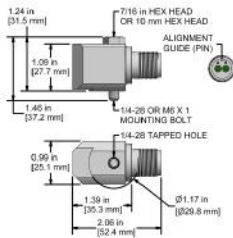
High Dynamic Range with Excellent Frequency Response

- ▶ ±80 g, Dynamic Range
- ▶ Excellent Bias Stability throughout operating temperature range
- ▶ 100 mV/g ±5%

AC211-1D

2 Pin Connector

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

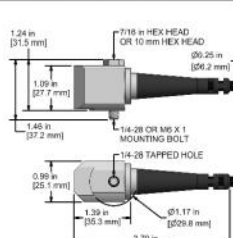


Stock Product

AC211-2D

CB103 Integral Cable

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

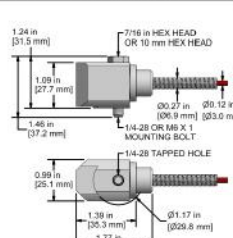


Built To Order

AC211-3D

CB206 Armored Integral Cable

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

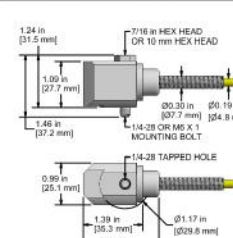


Built To Order

AC211-6D

CB611 Heavy Duty Armored Integral Cable

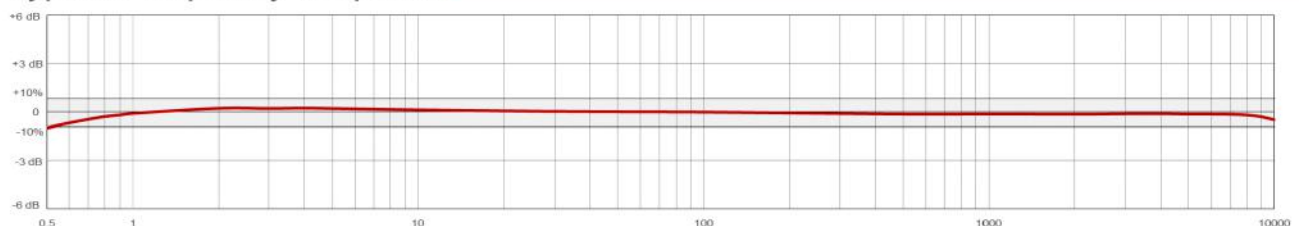
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC211	M/AC211	Environmental		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-240,000 CPM	1.0-4000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±5%)	120-180,000 CPM	2.0-3000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Submersible Depth	200 ft.	60 m
Electrical			SIL Rating	SIL 2	
Settling Time	<2.0 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	8 µg/√Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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AC216 Series

Premium Magnet Mount Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



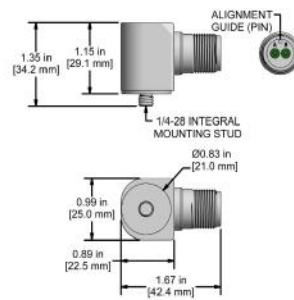
Product Features

- Premium Route-Based Sensor
- High Performance at a Reasonable Price
- Specifically Designed to Use with MH214-3A Magnet
- Comfortable Ergonomic Design Makes Data Collection Easy
- ±80 g, Dynamic Range, ±5% Sensitivity

AC216-1A

2 Pin Connector

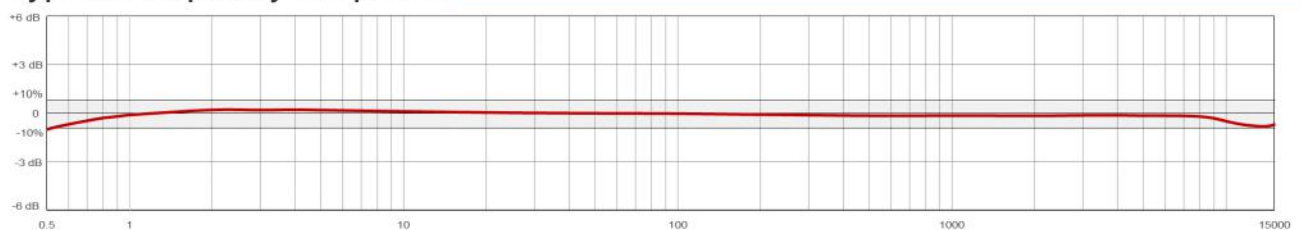
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±5%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±5%)	120-420,000 CPM	2,0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
Electrical			SIL Rating		SIL 2
Settling Time		<2.0 seconds	Physical		
Voltage Source (IEPE)		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		8 µg/√Hz	Weight	4.4 oz	124 grams
Spectral Noise @ 100 Hz		4 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		2 µg/√Hz	Mounting Thread		1/4-28 Integral Stud
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,560,000 CPM	26000 Hz
Case Isolation		>10 ⁸ ohm	Mounting Torque		2 to 5 ft. lbs.
			Mounting Hardware Supplied	1/4-28 Integral Stud	
			Calibration Certificate		CA10

Typical Frequency Response



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