

# AC911 Series

Low Capacitance, Intrinsically Safe Accelerometer, Top Exit 2 Pin Connector, 10 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

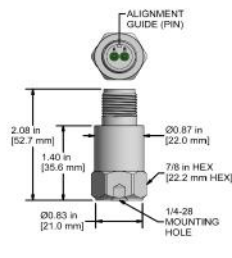
Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

### AC911-1A

2 Pin Connector

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



Stock Product

### AC911-2C

CB193 Integral Cable

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

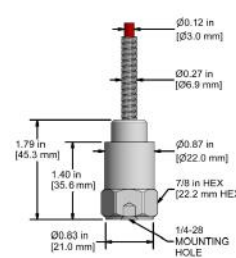


Built To Order

### AC911-3C

CB296 Armored Integral Cable

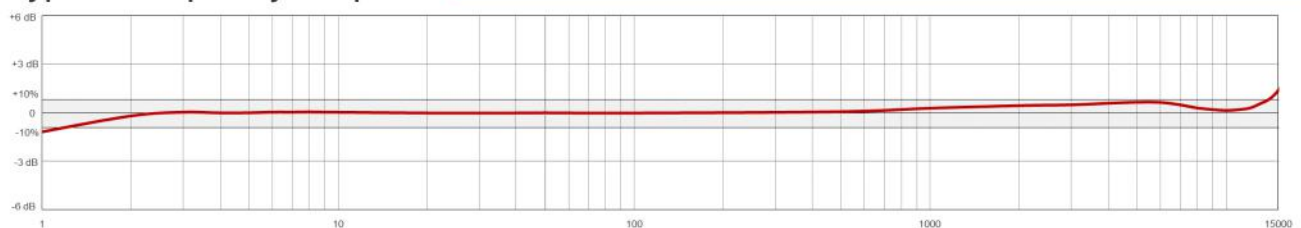
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC911	M/AC911	<b>Environmental</b>		
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-360,000 CPM	2,0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 800 g, peak		Sealing	IP68	
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-4 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	100 µg/√Hz		Weight	3.2 oz	91 grams
Spectral Noise @ 100 Hz	90 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	85 µg/√Hz		Mounting Thread	0.83 in (21 mm) Diameter Mounting Base with 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	1,380,000 CPM	23000 Hz
Case Isolation	>10 <sup>8</sup> 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



Backed by our Unconditional Lifetime Warranty

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# AC913 Series

Low Capacitance, Inherently Safe Accelerometer, Top Exit 2 Pin Connector, 50 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

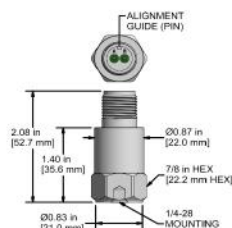
Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

### AC913-1A

2 Pin Connector

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



Stock Product

### AC913-2C

CB193 Integral Cable

Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common

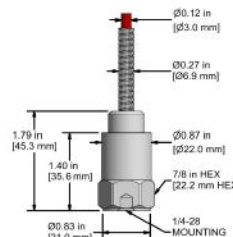


Built To Order

### AC913-3C

CB296 Armored Integral Cable

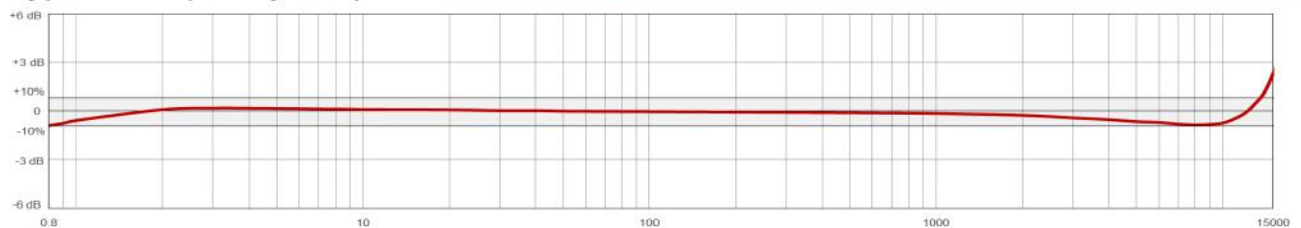
Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC913	M/AC913	<b>Environmental</b>		
Sensitivity (±10%)		50 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-240,000 CPM		Electromagnetic Sensitivity	CE	
Dynamic Range		± 100 g, peak	Sealing	Welded, Hermetic	
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-4 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	9 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	1.6 µg/√Hz		Mounting Thread	0.83 in (21 mm) Diameter	
Output Impedance	<100 ohm		Mounting Base with 1/4-28	Blind Tapped Hole	
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 Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

## Typical Frequency Response



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# AC914 Series

Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 2 Pin Connector, 50 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

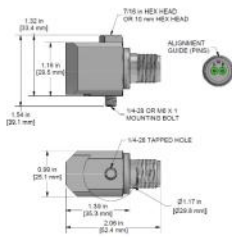
Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

### AC914-1A

2 Pin Connector

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

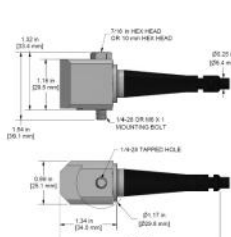


Stock Product

### AC914-2C

CB193 Integral Cable

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

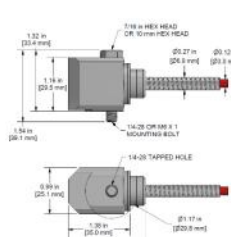


Built To Order

### AC914-3C

CB296 Armored Integral Cable

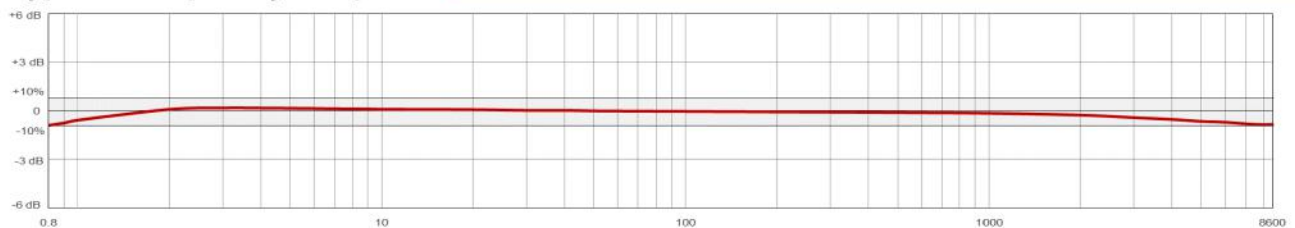
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC914	M/AC914	<b>Environmental</b>		
Sensitivity (±10%)		50 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	90-300,000 CPM	1,5-5000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 160 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-28 VDC	<b>Physical</b>		
Constant Current Excitation		2-4 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		9 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz		1.6 µg/√Hz	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Mounting Thread		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	1,320,000 CPM	22000 Hz
			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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# AC915 Series

Low Capacitance, Intrinsically Safe Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

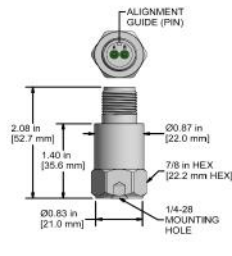
Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

### AC915-1A

2 Pin Connector

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



Stock Product

### AC915-2C

CB193 Integral Cable

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

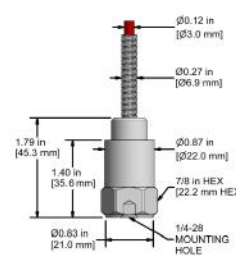


Built To Order

### AC915-3C

CB296 Armored Integral Cable

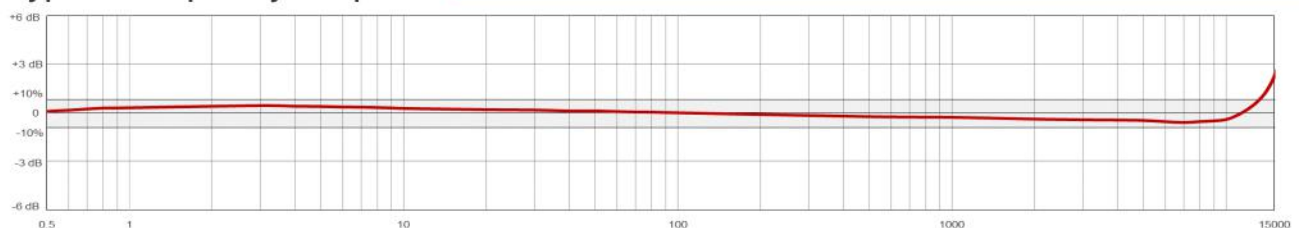
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC915	M/AC915	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1.0-10000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-4 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Mounting Thread	0.83 in (21 mm) Diameter Mounting Base with 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	1,380,000 CPM	23000 Hz
Case Isolation	>10 <sup>8</sup> 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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# AC915-M12A Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Accelerometer, Top Exit 4 Pin M12 Pin Connector, 100 mV/g, ±10%



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

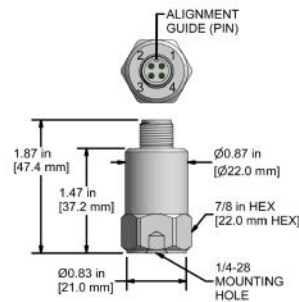
Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

## AC915-M12A

4 Pin Connector

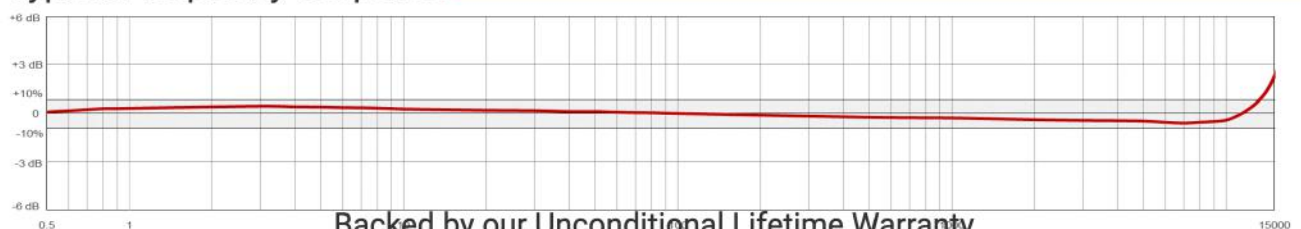
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC915-M12A	M/AC915	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-600,000 CPM	1,0-10000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-28 VDC		Sensing Element		PZT Ceramic
Constant Current Excitation	2-4 mA		Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2 µg/√Hz		Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Mounting Thread		0.83 in (21 mm) Diameter Mounting Base with 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	1,380,000 CPM	23000 Hz
Case Isolation	>10 <sup>8</sup> 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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# AC916 Series

Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

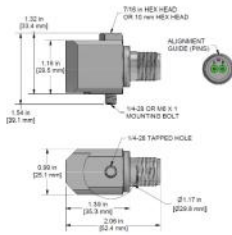
Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

### AC916-1A

2 Pin Connector

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

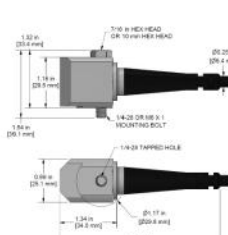


Stock Product

### AC916-2C

CB193 Integral Cable

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

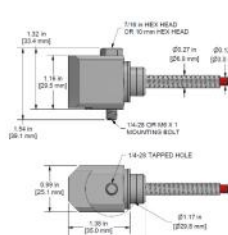


Built To Order

### AC916-3C

CB296 Armored Integral Cable

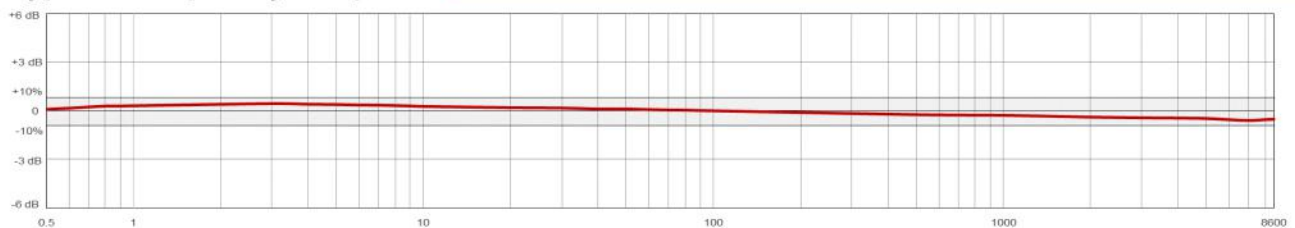
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC916	M/AC916	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-65 to 257°F	-54 to 125°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		<b>Physical</b>		
Constant Current Excitation	2-4 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	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	1,320,000 CPM	22000 Hz
			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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# AC916-M12A Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 4 Pin M12 Pin Connector, 100 mV/g, ±10%



## Regulatory Information

Ex ia IIC T3/T4  
 CLII Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

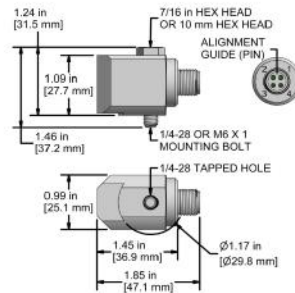
Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

### AC916-M12A

4 Pin Connector

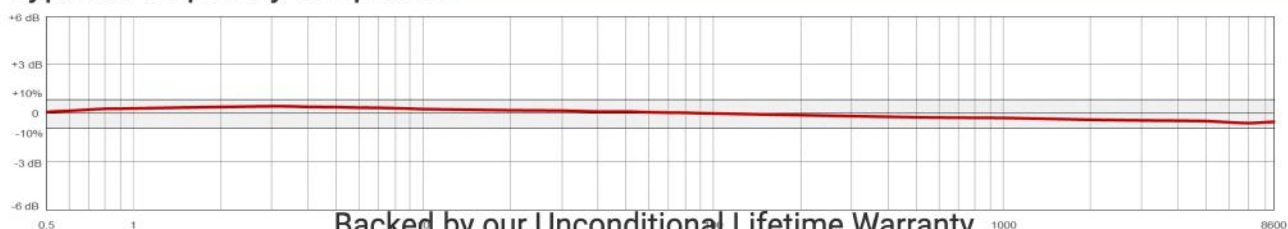
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC916-M12A	M/AC916-M12A	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-65 to 257°F	-54 to 125°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10,000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-28 VDC		<b>Physical</b>		
Constant Current Excitation	2-4 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting Thread		1/4-28
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		4 Pin M12 Connector
Case Isolation	>10 <sup>8</sup> ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
			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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# AC919 Series

Premium Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

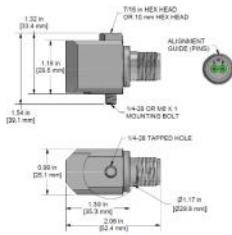
Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

### AC919-1A

2 Pin Connector

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

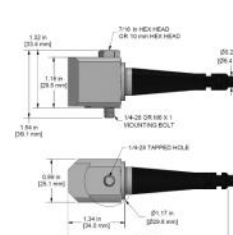


Stock Product

### AC919-2A

CB193 Integral Cable

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

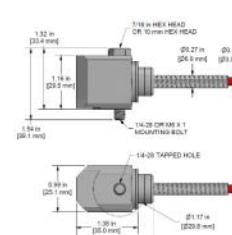


Built To Order

### AC919-3A

CB296 Armored Integral Cable

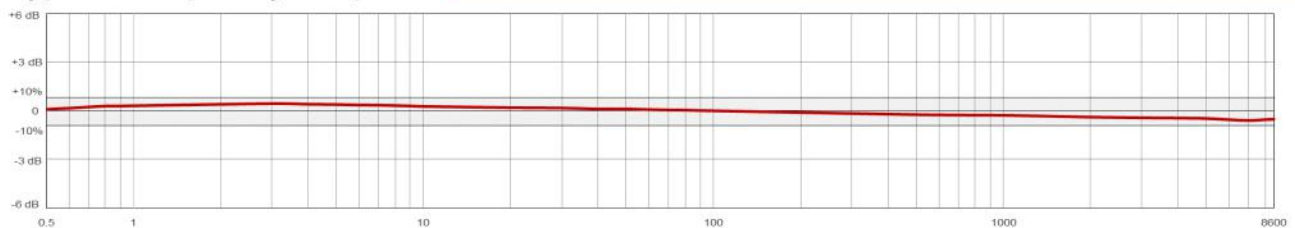
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC919	M/AC919	<b>Environmental</b>		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-65 to 257°F	-54 to 125°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		<b>Physical</b>		
Constant Current Excitation	2-4 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	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	1,320,000 CPM	22000 Hz
			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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# AC919-M12A Series



VIBRATION ANALYSIS HARDWARE

Premium Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 4 Pin M12 Pin Connector, 100 mV/g, ±5%



## Regulatory Information

Ex ia IIC T3/T4  
 CLII Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

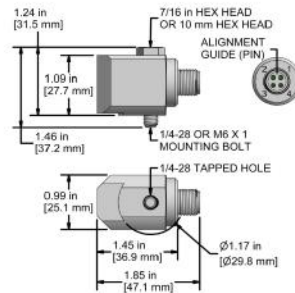
Operating Temperature Code:  
 T3  
 Ambient Temperature Range =  
 -40 to 125°C  
 Ui = 28 Vdc Ii = 100 mA  
 CSA 221421

Operating Temperature Code: T4  
 Ambient Temperature Range = -40 to 80°C

### AC919-M12A

4 Pin Connector

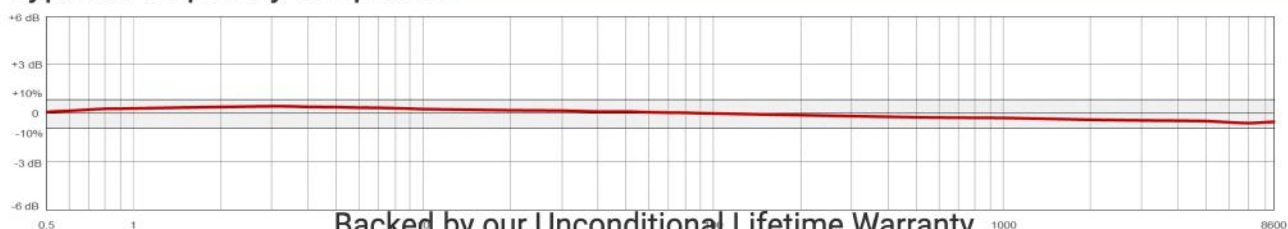
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC919-M12A	M/AC919-M12A	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-65 to 257°F	-54 to 125°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10,000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-28 VDC		<b>Physical</b>		
Constant Current Excitation	2-4 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting Thread		1/4-28
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		4 Pin M12 Connector
Case Isolation	>10 <sup>8</sup> ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
			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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# AC961 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEx / PESO) Accelerometer, Top Exit 2 Pin Connector, 10 mV/g, ±10%

**CE**  
**IECEX**  
**ANZEx**  
**PESO**



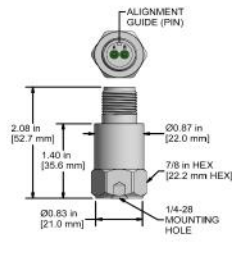
## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CLI Groups A, B, C, D	
CLII Groups F, G	IECEX CSA 07.0001
CLIII	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4	ANZEx 18.4160
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC961-1A

2 Pin Connector

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



Stock Product

### AC961-2C

CB193 Integral Cable

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

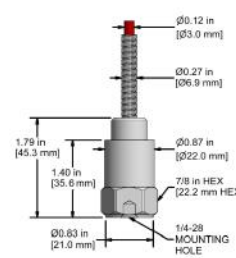


Built To Order

### AC961-3C

CB296 Armored Integral Cable

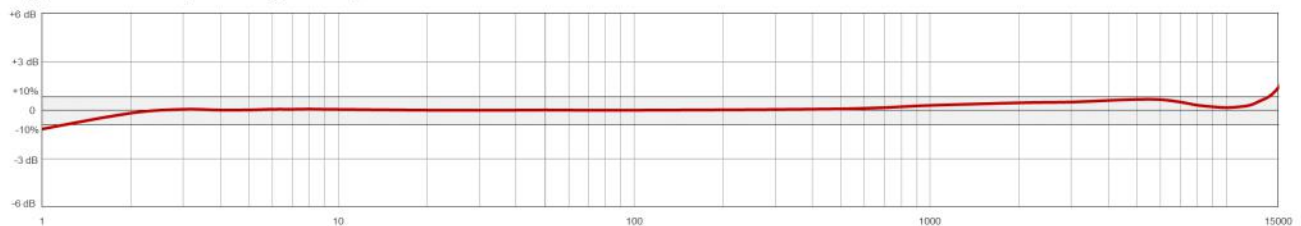
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC961	M/AC961	<b>Environmental</b>		
Sensitivity (±10%)		10 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	72-900,000 CPM	1,2-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	150-360,000 CPM		Electromagnetic Sensitivity		CE
Dynamic Range		± 500 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	<b>Physical</b>		
Voltage Source (IEPE)		18-28 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-4 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		500 µg/√Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz		65 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		11 µg/√Hz	Mounting Thread		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation		>10 <sup>8</sup> 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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# AC963 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEx / PESO) Accelerometer, Top Exit 2 Pin Connector, 50 mV/g, ±10%

**CE**  
**IECEX**  
**ANZEx**  
**PESO**



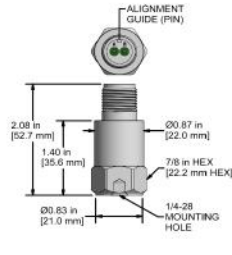
## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CLI Groups A, B, C, D	
CLII Groups F, G	IECEX CSA 07.0001
CLIII	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4	ANZEx 18.4160
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC963-1A

2 Pin Connector

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



Stock Product

### AC963-2C

CB193 Integral Cable

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

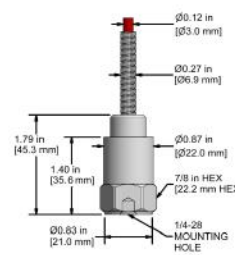


Built To Order

### AC963-3C

CB296 Armored Integral Cable

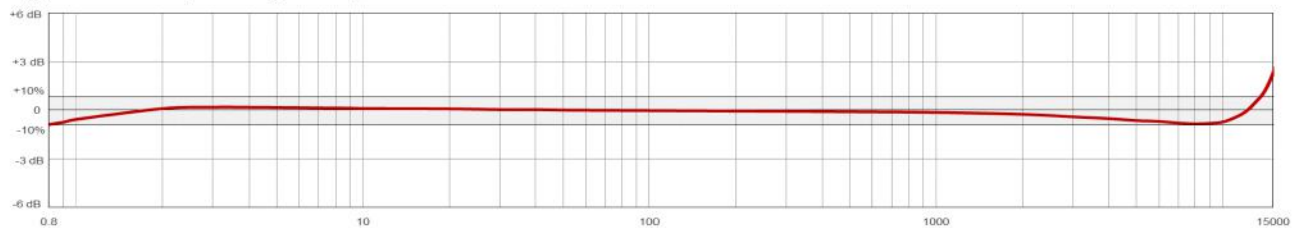
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC963	M/AC963	<b>Environmental</b>		
Sensitivity (±10%)		50 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-240,000 CPM		Electromagnetic Sensitivity		CE
Dynamic Range		± 100 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	<b>Physical</b>		
Voltage Source (IEPE)		18-28 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-4 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		9 µg/√Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz		2 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		1.6 µg/√Hz	Mounting Thread		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation		>10 <sup>8</sup> 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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# AC964 Series

Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEX / PESO) Accelerometer, Side Exit 2 Pin Connector, 50 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE

**CE**  
**IECEX**  
**ANZEX**  
**PESO**



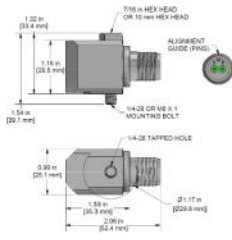
## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CLI Groups A, B, C, D	
CLII Groups F, G	IECEX CSA 07.0001
CLIII	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4	ANZEX 18.4160
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC964-1A

2 Pin Connector

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

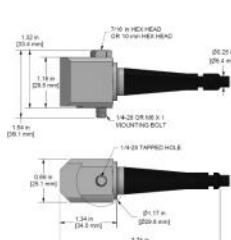


Stock Product

### AC964-2C

CB193 Integral Cable

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

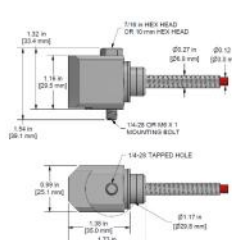


Built To Order

### AC964-3C

CB296 Armored Integral Cable

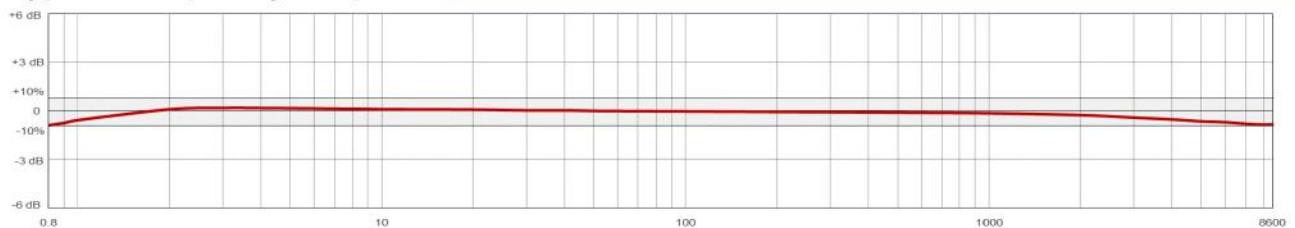
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC964	M/AC964	<b>Environmental</b>		
Sensitivity (±10%)		50 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	90-300,000 CPM		Electromagnetic Sensitivity		CE
Dynamic Range		± 100 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-28 VDC	<b>Physical</b>		
Constant Current Excitation		2-4 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		9 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz		1.6 µg/√Hz	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Mounting Thread		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	1,320,000 CPM	22000 Hz
			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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# AC965 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEx / PESO / KC / EAC) Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%

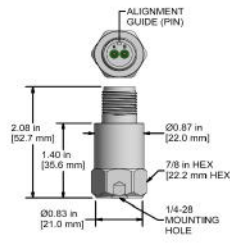


## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CL I Groups A, B, C, D	
CL II Groups F, G	IECEX CSA 07.0001
CL III	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4	ANZEX 18.4160
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC965-1A

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



Stock Product

### AC965-2C

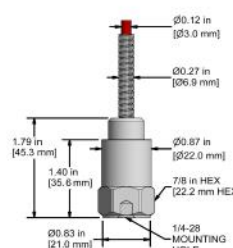
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC965-3C

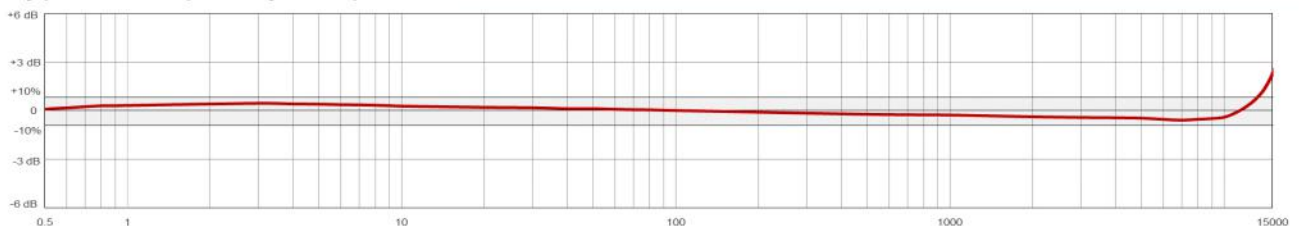
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC965	M/AC965	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1,0-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±5%)	600-300,000 CPM	10-5000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 50 g, peak		<b>Physical</b>		
<b>Electrical</b>			Sensing Element	PZT Ceramic	
Settling Time	<3 Seconds		Sensing Structure	Shear Mode	
Voltage Source (IEPE)	18-28 VDC		Weight	3.2 oz	91 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	30 µg/√Hz		Mounting Thread	1/4-28	
Spectral Noise @ 100 Hz	19 µg/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Spectral Noise @ 1000 Hz	15 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
Case Isolation	>10 <sup>8</sup> ohm		Calibration Certificate	CA10	

## Typical Frequency Response



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# AC966 Series

Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEx / PESO / KC / EAC) Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



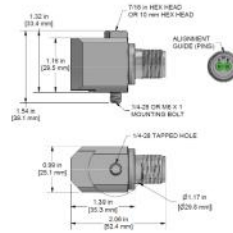
## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CL I Groups A, B, C, D	
CL II Groups F, G	IECEX CSA 07.0001
CL III	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4	ANZEx 18.4160
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC966-1A

2 Pin Connector

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

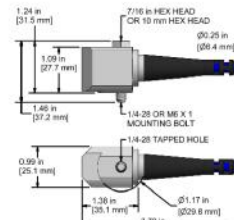


Stock Product

### AC966-2C

CB193 Integral Cable

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

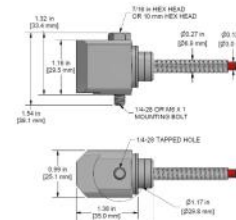


Built To Order

### AC966-3C

CB296 Armored Integral Cable

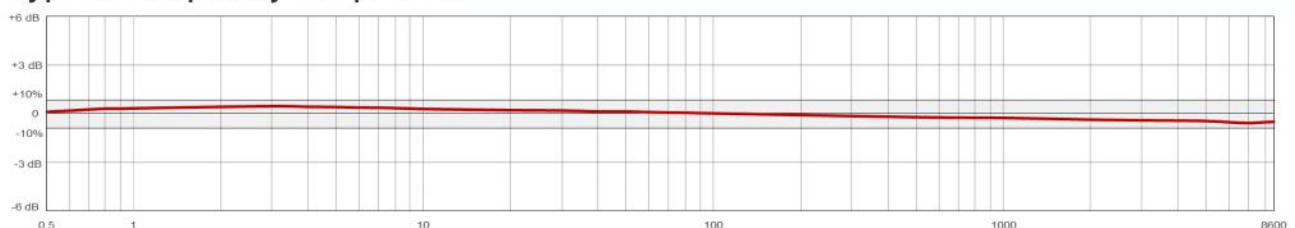
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC966	M/AC966	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 50 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-28 VDC	<b>Physical</b>		
Constant Current Excitation		2-4 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		6.5 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz		1.8 µg/√Hz	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Mounting Thread		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	1,320,000 CPM	22000 Hz
			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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# AC969 Series

Premium Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEx / PESO / KC / EAC) Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



**CE**  
**IECEX**  
**ANZEx**  
**PESO**



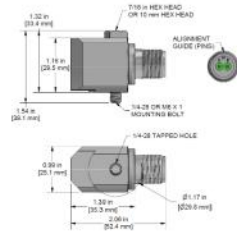
## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CL I Groups A, B, C, D	
CL II Groups F, G	IECEX CSA 07.0001
CL III	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4	ANZEx 18.4160
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC969-1A

2 Pin Connector

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

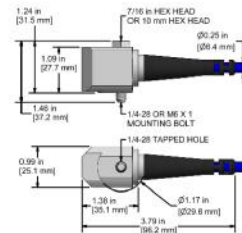


Stock Product

### AC969-2A

CB193 Integral Cable

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

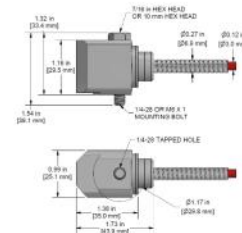


Built To Order

### AC969-3A

CB296 Armored Integral Cable

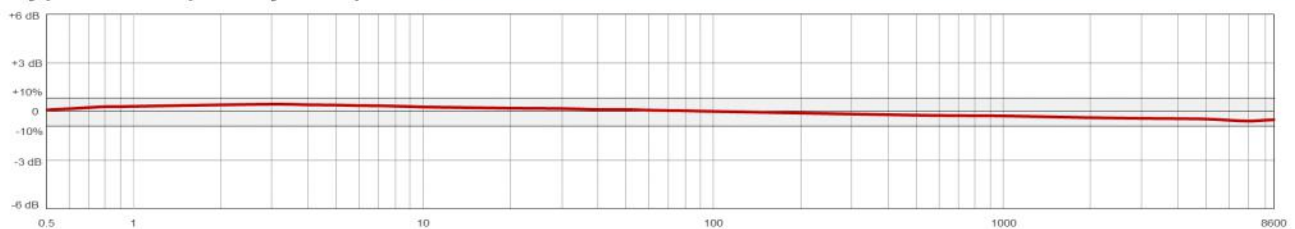
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC969	M/AC969	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 50 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-28 VDC	<b>Physical</b>		
Constant Current Excitation		2-4 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		6.5 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz		1.8 µg/√Hz	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Mounting Thread		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	1,320,000 CPM	22000 Hz
			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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# AC970 Series

Miniature Industrial Intrinsically Safe Accelerometer, Top Exit 2 Pin  
Mini-MIL Connector, 100 mV/g,  $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



**IECEX**  
IECEX SIR 15.0060X



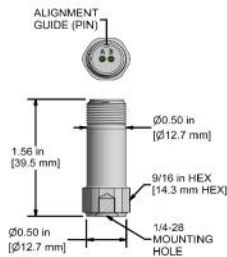
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx ia IIC T3/T4 Ga	Ui = 28 Vdc li = 112 mA
CLII Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0μH
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC970-1D

2 Pin Connector

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



Stock Product

### AC970-2D

CB193 Integral Cable

Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common

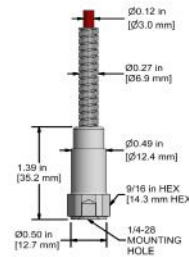


Built To Order

### AC970-3D

CB296 Armored Integral Cable

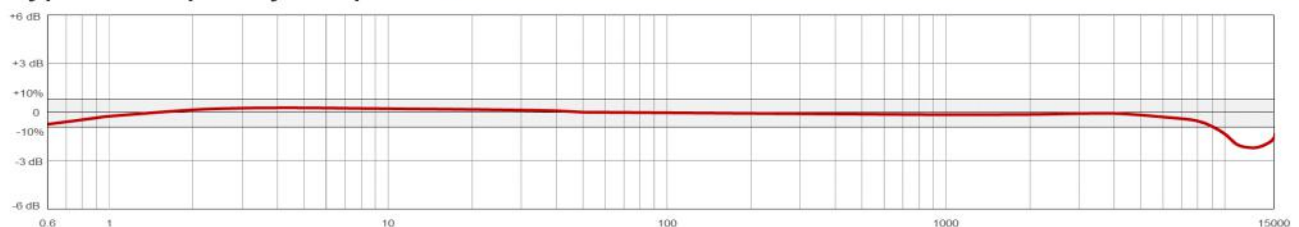
Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC970	M/AC970	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 3dB$ )	36-900,000 CPM	0,6-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ( $\pm 10\%$ )	60-420,000	1,0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		$\pm 50$ g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			<b>Physical</b>		
Settling Time		< 2.5 Seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-28 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	0.7 oz	20 grams
Spectral Noise @ 10 Hz		30 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		4 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Thread		1/4-28
Spectral Noise @ 1000 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$	Connector (Non-Integral)		2 Pin mini-MIL
Output Impedance		<100 ohm	Resonant Frequency	2,040,000	34000 Hz
Bias Output Voltage		10-14 VDC	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation		>10 <sup>8</sup> ohm	Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



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# AC971 Series



VIBRATION ANALYSIS HARDWARE

Premium Miniature Industrial Intrinsically Safe Accelerometer, Top Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±5%



**IECEX**  
IECEX SIR 15.0060X



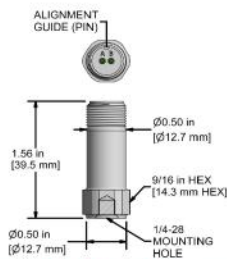
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx ia IIC T3/T4 Ga	Ui = 28 Vdc li = 112 mA
CL I Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0µH
CL II Groups E, F, G; CL III	CSA 221421
CL I, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC971-1A

2 Pin Connector

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



Stock Product

### AC971-2A

CB193 Integral Cable

Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common

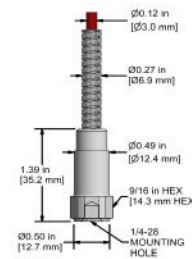


Built To Order

### AC971-3A

CB296 Armored Integral Cable

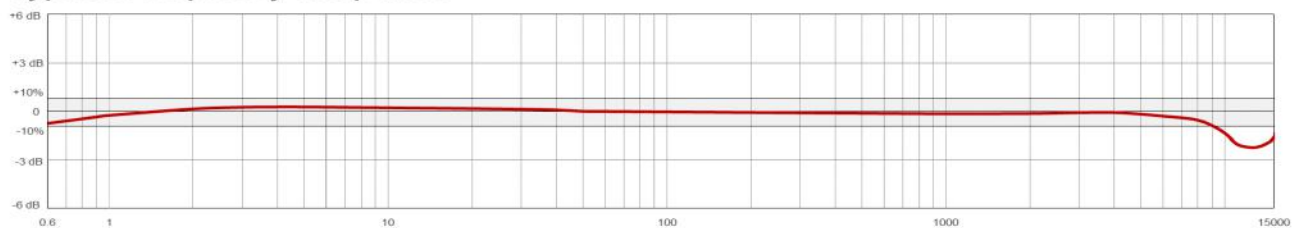
Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC971	M/AC971	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	36-900,000 CPM	0,6-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-420,000	1,0-7000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 50 g, peak	Sealing	Welded, Hermetic	
<b>Electrical</b>			<b>Physical</b>		
Settling Time	< 2.5 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	0.7 oz	20 grams
Spectral Noise @ 10 Hz	30 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL	
Output Impedance	<100 ohm		Resonant Frequency	2,040,000	34000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation	>10 <sup>8</sup> ohm		Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



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# AC972 Series

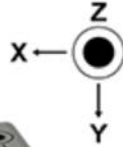


VIBRATION ANALYSIS HARDWARE

Intrinsically Safe Triaxial Accelerometer, Follows Cartesian Phase Coordinate System for Modal/ODS Analysis, Side Exit 4 Pin Mini-MIL Connector, 10 mV/g, ±10%



**IECEX**  
IECEX SIR 15.0060X



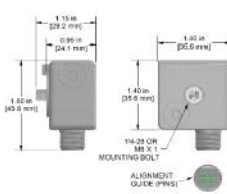
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx ia IIC T3/T4 Ga	Ui = 28 Vdc li = 112 mA
CLI Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0µH
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC972-1D

4 Pin Connector

Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common

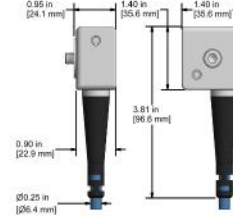


Stock Product

### AC972-2D

CB192 Integral Cable

Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common

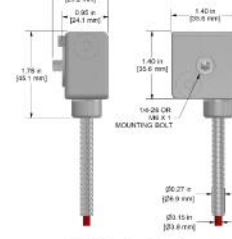


Built To Order

### AC972-3D

CB218 Armored Integral Cable

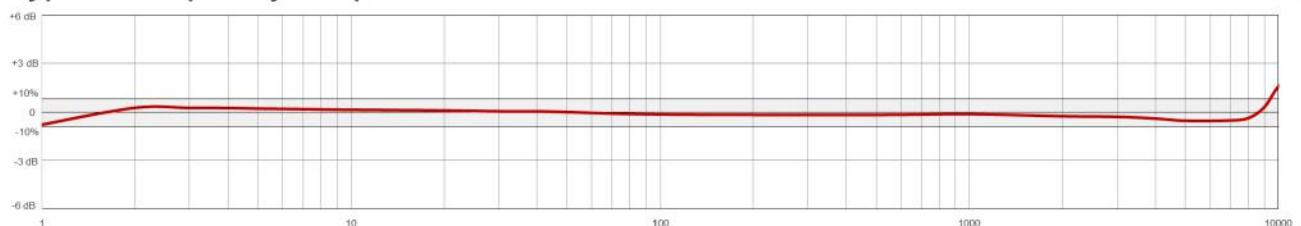
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC972	M/AC972	<b>Environmental</b>		
Sensitivity (±10%)		10 mV/g	Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±10%)	90-420,000 CPM	1,5-7000 Hz	Sealing	Welded, Hermetic Rated to IP68/IP69	
Frequency Response (±5%)	180-360,000 CPM	3,0-6000 Hz	SIL Rating	SIL 2	
Dynamic Range	± 500 g, peak		<b>Physical</b>		
Transverse Sensitivity	<5%		Sensing Element	PZT Ceramic	
<b>Electrical</b>			Sensing Structure	Shear Mode	
Settling Time	<2.5 seconds		Weight	7.1 oz	200 grams
Voltage Source (IEPE)	18-28 VDC		Case Material	316L Stainless Steel	
Constant Current Excitation	2-10 mA		Mounting Thread	1/4-28	
Spectral Noise @ 10 Hz	27 µg/√Hz		Connector (Non-Integral)	4 Pin J Connector	
Spectral Noise @ 100 Hz	6.5 µg/√Hz		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Spectral Noise @ 1000 Hz	2.5 µg/√Hz		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance	<100 ohm		Calibration Certificate	CA10	
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 <sup>8</sup> ohm				

## Typical Frequency Response



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# AC974 Series

Miniature Industrial Inherently Safe Accelerometer, Side Exit 2 Pin  
Mini-MIL Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



**IECEX**  
IECEX SIR 15.0060X



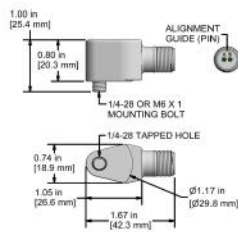
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx ia IIC T3/T4 Ga	Ui = 28 Vdc li = 112 mA
CLI Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0µH
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC974-1D

2 Pin Connector

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

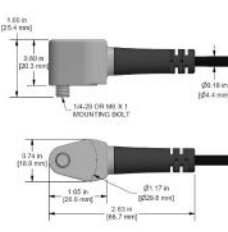


Stock Product

### AC974-2D

CB193 Integral Cable

Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common

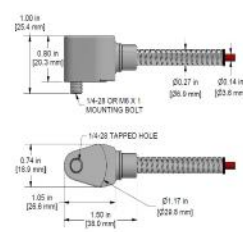


Built To Order

### AC974-3D

CB296 Armored Integral Cable

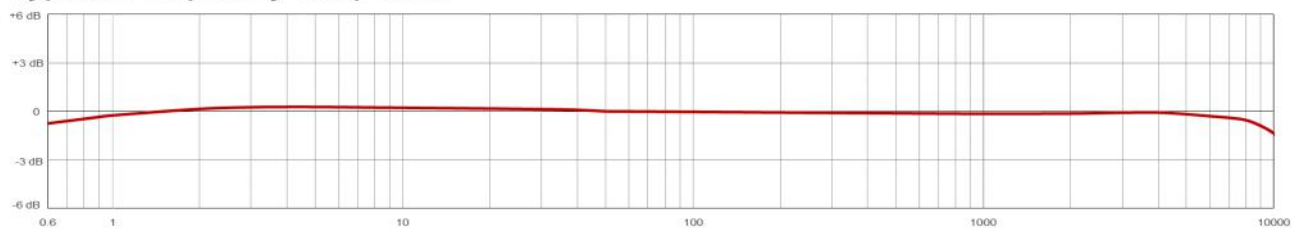
Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC974	M/AC974	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 50 g, peak		Electromagnetic Sensitivity	CE	
<b>Electrical</b>			Sealing	Welded, Hermetic	
Settling Time	<2.5 Seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	30 µg/√Hz		Weight	2.1 oz	60 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	
Output Impedance	< 100 ohm		Connector (Non-Integral)	2 Pin mini-MIL	
Case Isolation	>10 <sup>8</sup> ohm		Resonant Frequency	1,920,000 CPM	32000 Hz
			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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# AC979 Series

Intrinsically Safe Biaxial Accelerometer, Side Exit 3 Pin Connector, with X and Z Axis, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



**IECEX**  
IECEX SIR 15.0060X



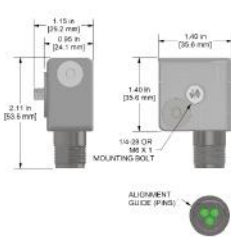
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx ia IIC T3/T4 Ga	Ui = 28 Vdc Ii = 112 mA
CLI Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0µH
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC979-1D

3 Pin Connector

Connector Pin	Polarity
A (Axis X)	(+) Signal/Power
B (Axis Z)	(+) Signal/Power
C	(-) Common



Stock Product

### AC979-2D

CB192 Integral Cable

Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common

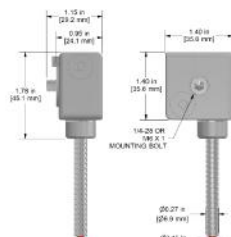


Built To Order

### AC979-3D

CB218 Armored Integral Cable

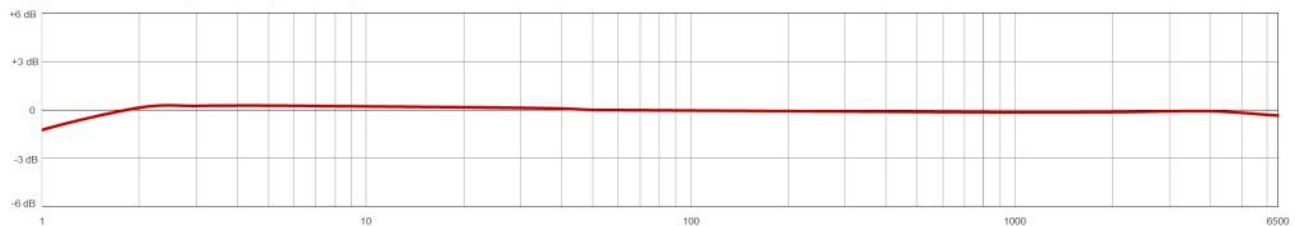
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC979	M/AC979	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-390,000 CPM	1,0-6500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 g. peak		Sealing	Welded, Hermetic	
<b>Electrical</b>			<b>Physical</b>		
Settling Time	<2.5 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	6.9 oz	195 grams
Spectral Noise @ 10 Hz	27 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	6.5 µg/√Hz		Mounting Thread	1/4-28	
Spectral Noise @ 1000 Hz	2.5 µg/√Hz		Connector (Non-Integral)	3 Pin MIL-C-5015	
Output Impedance	<100 ohm		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation	>10 <sup>8</sup> ohm		Calibration Certificate	CA10	

## Typical Frequency Response



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# AC980 Series

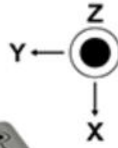
Intrinsically Safe Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



**IECEX**  
IECEX SIR 15.0060X



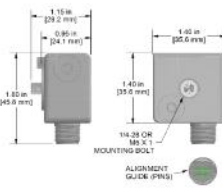
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx ia IIC T3/T4 Ga	Ui = 28 Vdc li = 112 mA
CLI Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0µH
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC980-1D

4 Pin Connector

Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common

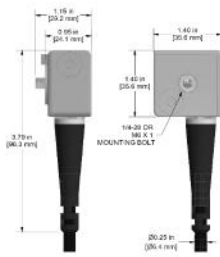


Stock Product

### AC980-2D

CB192 Integral Cable

Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common

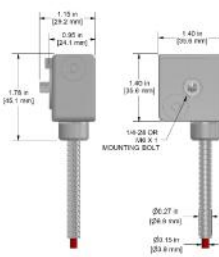


Built To Order

### AC980-3D

CB218 Armored Integral Cable

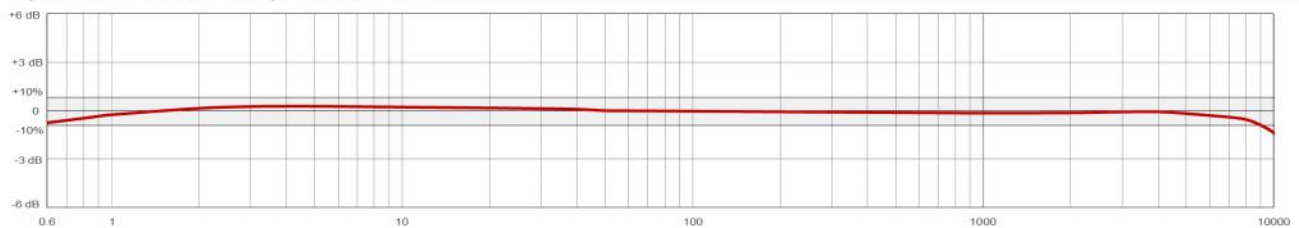
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC980	M/AC980	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±10%)	60-390,000 CPM		Sealing		Welded, Hermetic
Dynamic Range		± 50 g, peak	<b>Physical</b>		
<b>Electrical</b>			Sensing Element		PZT Ceramic
Settling Time		<2.5 seconds	Weight	7.1 oz	200 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting Thread		1/4-28
Spectral Noise @ 10 Hz		27 µg/√Hz	Connector (Non-Integral)		4 Pin J Connector
Spectral Noise @ 100 Hz		6.5 µg/√Hz	Mounting Torque	1 to 2 ft. lbs	1,4 to 2,7 Nm
Spectral Noise @ 1000 Hz		2.5 µg/√Hz	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance		<100 ohm	Calibration Certificate		CA10
Bias Output Voltage		10-14 VDC			
Case Isolation		>10 <sup>8</sup> ohm			

## Typical Frequency Response



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# AC982 Series

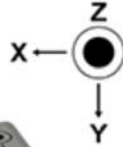


VIBRATION ANALYSIS HARDWARE

Intrinsically Safe Triaxial Accelerometer, Follows Cartesian Phase Coordinate System for Modal/ODS Analysis, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g,  $\pm 10\%$



**IECEX**  
IECEX SIR 15.0060X



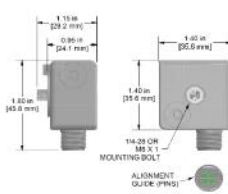
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx is IIC T3/T4 Ga	Ui = 28 Vdc Ii = 112 mA
CLI Groups A, B, C, D	Pi = 1W, Ci = 63.036nF, Li = 0μH
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	
Operating Temperature Code: T3	IECEX SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga

### AC982-1D

4 Pin Connector

Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common

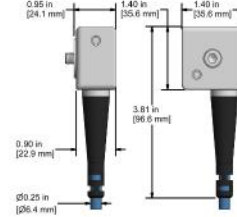


Stock Product

### AC982-2D

CB192 Integral Cable

Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common

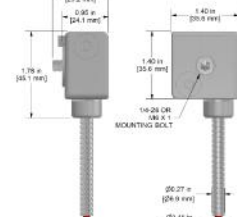


Built To Order

### AC982-3D

CB218 Armored Integral Cable

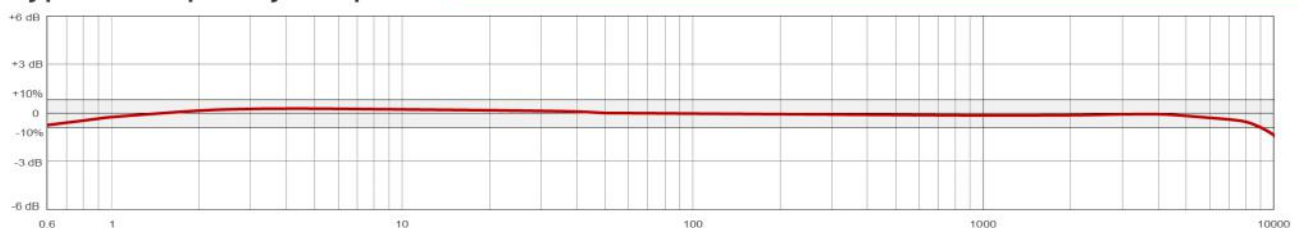
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC982	M/AC982	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )		100 mV/g	Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response ( $\pm 3\text{dB}$ )	30-600,000 CPM	0.6-10000 Hz	Electromagnetic Sensitivity		CE
Frequency Response ( $\pm 10\%$ )	60-390,000 CPM	1.0-6500 Hz	Sealing		Welded, Hermetic
Frequency Response ( $\pm 5\%$ )	480-330,000 CPM	8.0-5500 Hz	SIL Rating		SIL 2
Dynamic Range		$\pm 50\text{g}$ , peak	<b>Physical</b>		
<b>Electrical</b>			Sensing Element		PZT Ceramic
Settling Time	<2.5 Seconds		Sensing Structure		Shear Mode
Voltage Source (IEPE)	18-28 VDC		Weight	7.1 oz	200 grams
Constant Current Excitation	2-10 mA		Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Thread		1/4-28
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)		4 Pin, J Series
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 ohm		Calibration Certificate		CA10
Case Isolation	>10 <sup>8</sup> ohm				

## Typical Frequency Response



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# TA911 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, Top Exit 3 Pin Connector, 10 mV/g, 10 mV/°C, ±10%



II 1 G

**IECEx**  
IECEx SIR 15.0060X



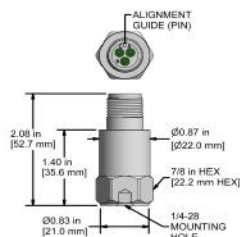
## Regulatory Information

Ex ia IIC T3 Ga	Ui = 28 Vdc Ii = 112 mA
AEx is IIC T3 Ga	PI = 1W, Ci = 1.5nF, Li = 0μH
CLi Groups A, B, C, D	CSA 221421
CLiI Groups E, F, G; CLiII	Sira 15ATEX2152X
CLi, Zone 0	Ex ia IIC T3 Ga
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 80°C	IECEx SIR 15.0060X
Control Drawing INS10012	Ex ia IIC T3 Ga

### TA911-1A

3 Pin Connector

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



Stock Product

### TA911-2C

CB191 Integral Cable

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

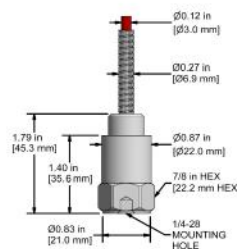


Built To Order

### TA911-3C

CB218 Armored Integral Cable

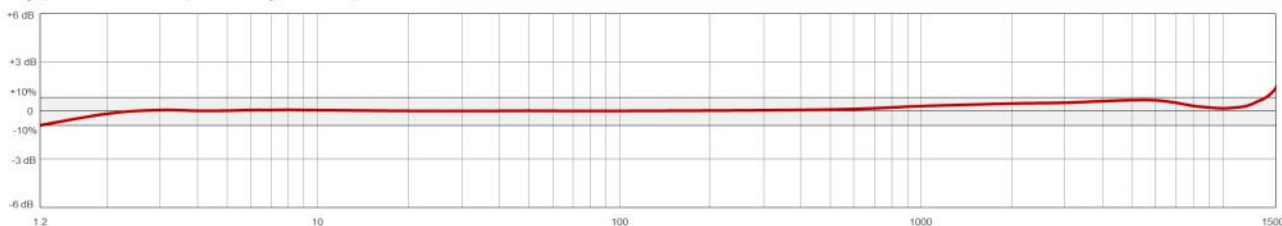
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA911	M/TA911	<b>Environmental</b>		
Sensitivity (±10%)		10 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	72-900,000 CPM	1,2-15,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	150-360,000 CPM	2,5-6,000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 800 g, peak	Sealing	Welded, Hermetic	
Temperature Measurement Range	38 to 250°F	3 to 121°C	<b>Physical</b>		
Temperature Output		10 mV/°C	Sensing Element	PZT Ceramic	
<b>Electrical</b>			Sensing Structure	Shear Mode	
Settling Time		< 2 seconds	Weight	3.2 oz	90 grams
Voltage Source (IEPE)		18-28 VDC	Case Material	316L Stainless Steel	
Constant Current Excitation		2-10 mA	Mounting Thread	1/4-28	
Spectral Noise @ 10 Hz		30 μg/√Hz	Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 100 Hz		19 μg/√Hz	Resonant Frequency	1,380,000 CPM	23,000 Hz
Spectral Noise @ 1000 Hz		15 μg/√Hz	Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Output Impedance		<100 ohm	Mounting Hardware Supplied	1/4-28 stud	M6x1 Adapter Stud
Bias Output Voltage		10-14 VDC	Calibration Certificate	CA10	
Case Isolation		>10 <sup>8</sup> ohm			

## Typical Frequency Response



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# TA915 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, Top Exit 3 Pin Connector, 100 mV/g, 10 mV/°C, ±10%



**IECEx**  
IECEx SIR 15.0060X



## Regulatory Information

Ex ia IIC T3 Ga	Ui = 28 Vdc li = 112 mA
AEx is IIC T3 Ga	PI = 1W, CI = 1.5nF, LI = 0µH
CL I Groups A, B, C, D	CSA 221421
CL II Groups E, F, G; CL III	Sira 15ATEX2152X
CL I, Zone 0	Ex ia IIC T3 Ga
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 80°C	IECEx SIR 15.0060X
Control Drawing INS10012	Ex ia IIC T3 Ga

### TA915-1A

3 Pin Connector

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

**Stock Product**

### TA915-2C

Integral Cable

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

**Built To Order**

### TA915-3C

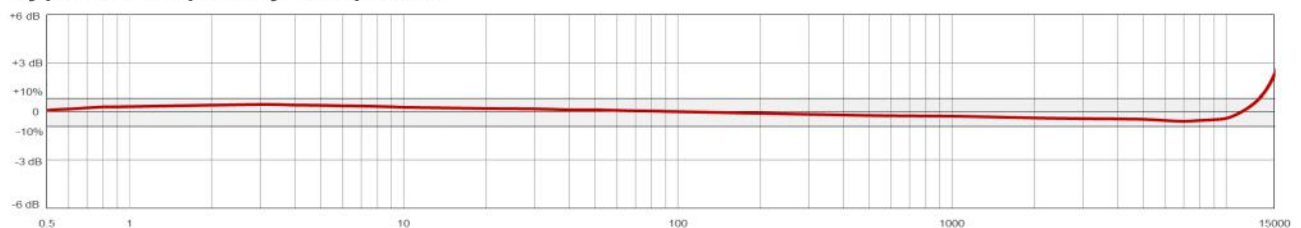
Armored Integral Cable

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

**Built To Order**

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA915	M/TA915	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-360,000 CPM	1,0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			<b>Physical</b>		
Settling Time		<3 seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-28 VDC	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		30 µg/√Hz	Weight	3.2 oz	91 grams
Spectral Noise @ 100 Hz		19 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		15 µg/√Hz	Mounting Thread		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		3 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency		1,380,000 CPM
Case Isolation		>10 <sup>8</sup> ohm	Mounting Torque		2 to 5 ft. lbs
			Mounting Hardware Supplied		1/4-28 stud
			Calibration Certificate		CA10

## Typical Frequency Response



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# TA916 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, Side Exit 3 Pin Connector, 100 mV/g, 10 mV/°C, ±10%



**IECEx**  
IECEx SIR 15.0060X



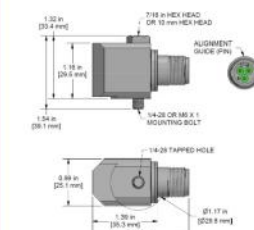
## Regulatory Information

Ex ia IIC T3 Ga	Ui = 28 Vdc li = 112 mA
AEx is IIC T3 Ga	PI = 1W, Ci = 1.5nF, Li = 0μH
CLI Groups A, B, C, D	CSA 221421
CLII Groups E, F, G; CLIII	
CLI, Zone 0	Sira 15ATEX2152X
	Ex ia IIC T3 Ga
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 80°C	IECEx SIR 15.0060X
Control Drawing INS10012	Ex ia IIC T3 Ga

### TA916-1A

3 Pin Connector

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

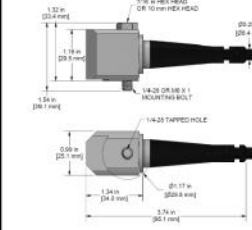


Stock Product

### TA916-2C

CB191 Integral Cable

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

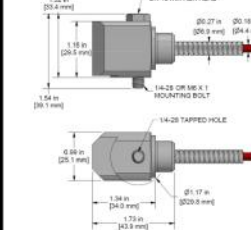


Built To Order

### TA916-3C

CB218 Armored Integral Cable

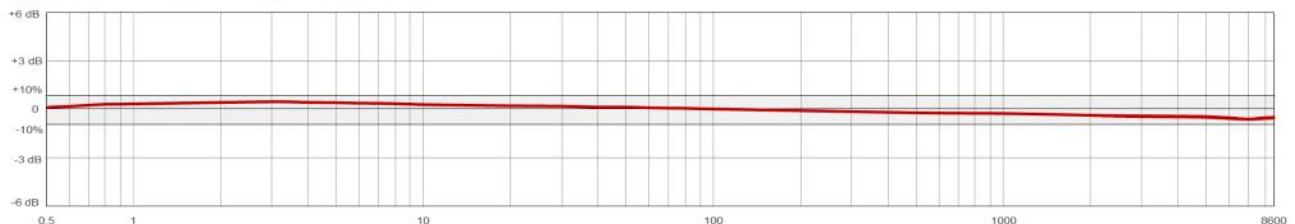
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA916	M/TA916	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	<b>Physical</b>		
Dynamic Range		± 80 g, peak	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time		<3 Seconds	Weight	5.3 oz	151 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		30 μg/√Hz	Mounting Thread		1/4-28
Spectral Noise @ 100 Hz		19 μg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 1000 Hz		15 μg/√Hz	Resonant Frequency	1,260,000 CPM	21000 Hz
Output Impedance		<100 ohm	Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 <sup>8</sup> ohm	Calibration Certificate		CA10

## Typical Frequency Response



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# TA918 Series



VIBRATION ANALYSIS HARDWARE

Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, 100 mV/g, 10 mV/°C, 3 Pin Side Exit Connector With M8 Captive Bolt



IECEx  
IECEx SIR 15.0060X



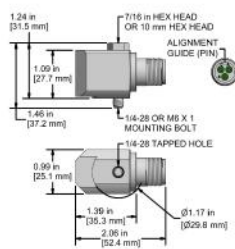
## Regulatory Information

Ex ia IIC T3 Ga	Ui = 28 Vdc Ii = 112 mA
AEx is IIC T3 Ga	PI = 1W, CI = 1.5nF, LI = 0μH
CLI Groups A, B, C, D	CSA 221421
CLII Groups E, F, G; CLIII	Sira 15ATEX2152X
CLI, Zone 0	Ex ia IIC T3 Ga
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 80°C	IECEx SIR 15.0060X
Control Drawing INS10012	Ex ia IIC T3 Ga

### TA918-1A

3 Pin Connector

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

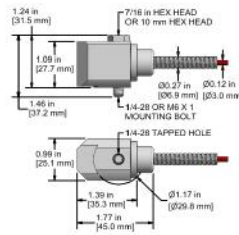


Stock Product

### TA918-3C

Armored Integral Cable

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

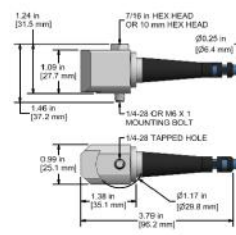


Built To Order

### TA918-9C

Integral Cable

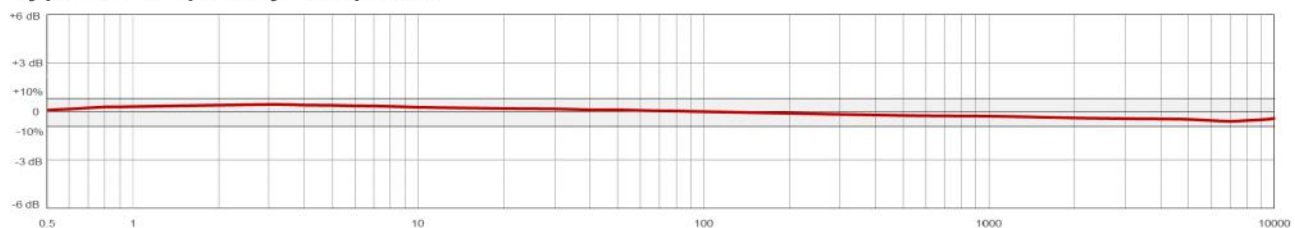
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	<b>Environmental</b>		
Frequency Response (±3dB)	30-600,000 CPM		Operating Temperature Range	-40 to 250°F (-40 to 121°C)	
Dynamic Range		± 50 g, peak	<b>Physical</b>		
<b>Electrical</b>			Sensing Element		PZT Ceramic
Settling Time		<2.5 seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-28 VDC	Weight	6.3 oz	180 grams
Constant Current Excitation		2-10 mA	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		8 μg/√Hz	Mounting Thread		M8x1.25
Spectral Noise @ 100 Hz		0.82 μg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 1000 Hz		0.3 μg/√Hz	Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance		<100 ohm	Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied		M8 Captive Bolt
Case Isolation		>10 <sup>8</sup> ohm	Calibration Certificate		CA10

## Typical Frequency Response



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