

# 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, ±10%



**IECEx**  
IECEx SIR 15.0060X



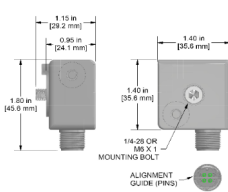
## Regulatory Information

Ex ia IIC T3/T4 Ga	Control Drawing INS10012
AEx is IIC T3/T4 Ga	Ui = 28 Vdc 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

### 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

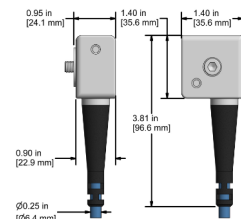


**Stock Product**

### AC982-2D

CB192 Integral Cable

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

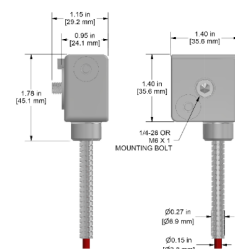


**Built To Order**

### AC982-3D

CB218 Armored Integral Cable

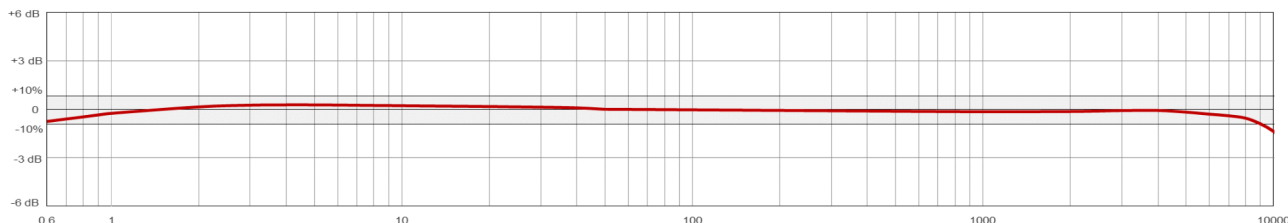
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



**Built To Order**

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC982	M/AC982	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0.6-10000 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±10%)	60-390,000 CPM	1.0-6500 Hz	Sealing		Welded, Hermetic
Frequency Response (±5%)	480-330,000 CPM	8.0-5500 Hz	SIL Rating		SIL 2
Dynamic Range		± 50g, 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 μg/√Hz	Mounting		1/4-28
Spectral Noise @ 100 Hz		6.5 μg/√Hz	Connector (Non-Integral)		4 Pin, J Series
Spectral Noise @ 1000 Hz		2.5 μg/√Hz	Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Output Impedance		<100 ohm	Mounting Hardware	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



Backed by our Unconditional Lifetime Warranty

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