

# AC966 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive, Intrinsically Safe, IECEx/ANZEx/KC/EAC Zone 0,1  
Approved Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



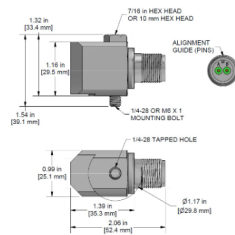
## Regulatory Information

Ex ia IIC T3/T4	U <sub>i</sub> = 28 Vdc I <sub>i</sub> = 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	Ex ia I Ma
Ambient Temperature Range = -40 to 80°C	ANZEx 18.4160
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

### AC966-1A

2 Pin Connector

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

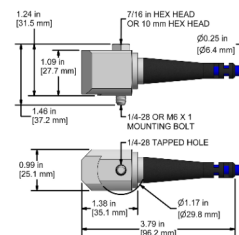


Stock Product

### AC966-2C

CB193 Integral Cable

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

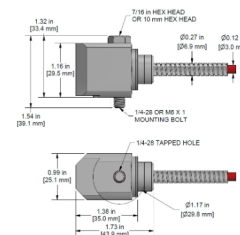


Built To Order

### AC966-3C

CB296 Armored Integral Cable

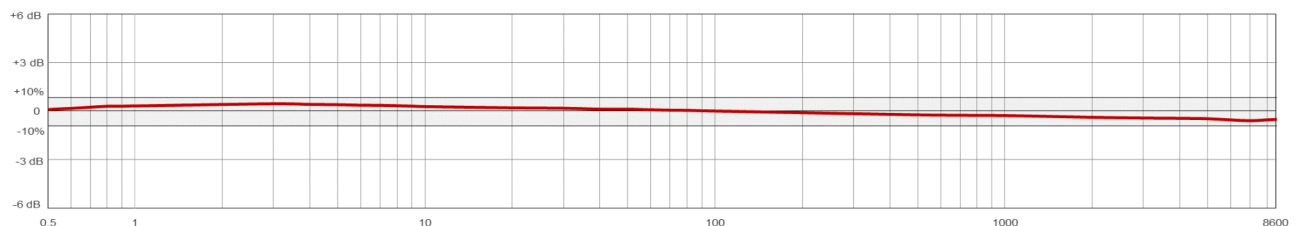
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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