

AC966 Series

IEC Certified (IECEX), Intrinsically Safe Accelerometer, Side Exit Connector / Cable, 100 mV/g Low Capacitance



VIBRATION ANALYSIS HARDWARE



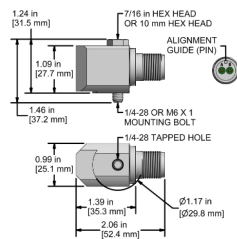
Regulatory Information

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

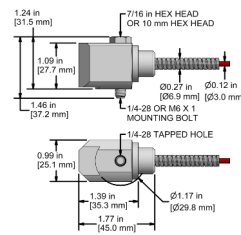


Stock Product

AC966-3C

CB206 Armored Integral Cable

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

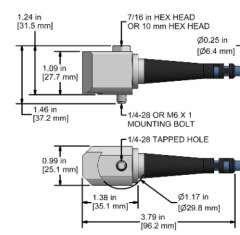


Built To Order

AC966-9C

CB190 Integral Cable

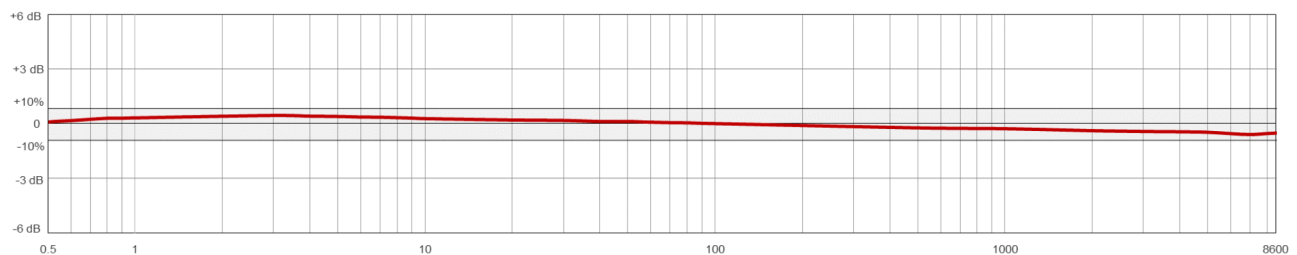
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC966	M/AC966	Environmental		
Sensitivity ($\pm 10\%$)		100 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response ($\pm 3\text{dB}$)	30-516,000 CPM	0.5-8600 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 50 g, peak	Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	Physical		
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 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	5.3 oz	150 grams
Spectral Noise @ 100 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		1.8 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting		1/4-28
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	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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