

AC965 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, IEC Certified (IECEx/ANZEx), Intrinsically Safe Accelerometer, Top Exit Connector/Cable, 100 mV/g



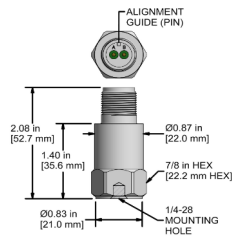
Regulatory Information

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

2 Pin Connector

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

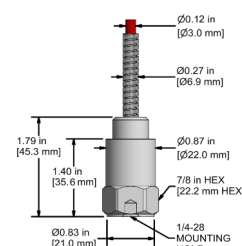


Stock Product

AC965-3C

CB206 Armored Integral Cable

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

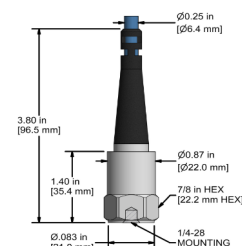


Built To Order

AC965-9C

CB190 Integral Cable

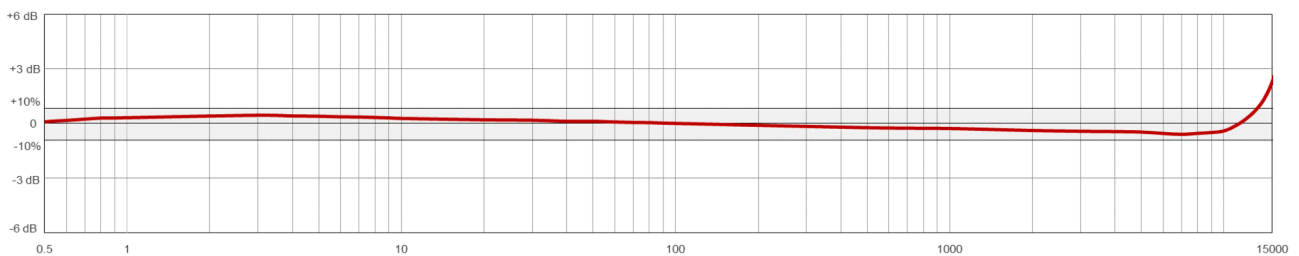
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC965	M/AC965	Environmental		
Sensitivity ($\pm 10\%$)		100 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response ($\pm 3\text{dB}$)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	60-600,000 CPM	1.0-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response ($\pm 5\%$)	600-300,000 CPM	10-5000 Hz	Sealing	Welded, Hermetic	
Dynamic Range		± 50 g, peak	Physical		
Electrical			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 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting	1/4-28	
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin MIL-C-5015	
Spectral Noise @ 1000 Hz	15 $\mu\text{g}/\sqrt{\text{Hz}}$		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	1/4-28 Stud	M6x1 Adapter Stud
Case Isolation	> 10^8 ohm		Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

www.ctconline.com | sales@ctconline.com | 585-924-5900