

AC965 Series



VIBRATION ANALYSIS HARDWARE

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



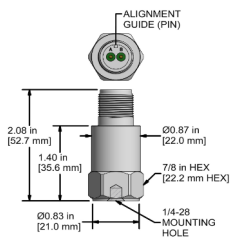
Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc Ii = 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	

AC965-1A

2 Pin Connector

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

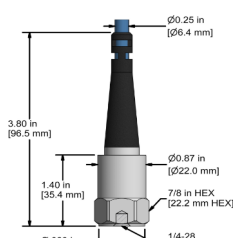


Stock Product

AC965-2C

CB193 Integral Cable

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

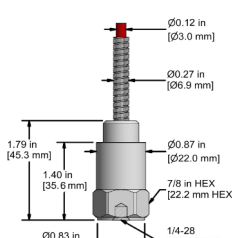


Built To Order

AC965-3C

CB296 Armored Integral Cable

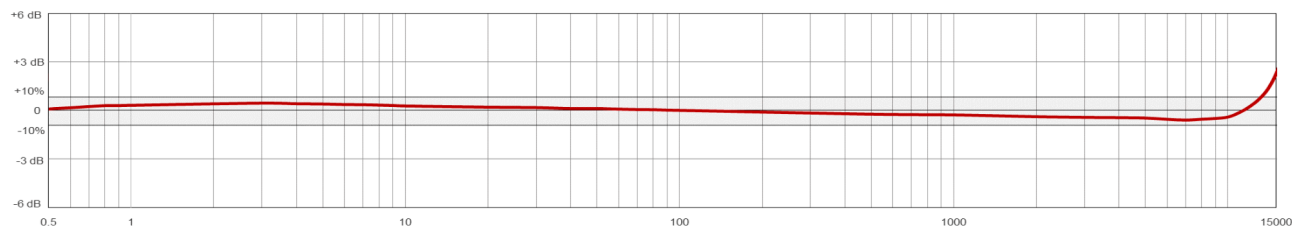
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC965	M/AC965	Environmental		
Sensitivity (±10%)	100 mV/g		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		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 µg/√Hz		Mounting	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	1/4-28 Stud	M6x1 Adapter Stud
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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