

# AC963 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe IEC Certified (IECEX / ANZEx / PESO) Accelerometer, Top Exit 2 Pin Connector, 50 mV/g, ±10%

**CE**  
**IECEX**  
**ANZEx**  
**PESO**



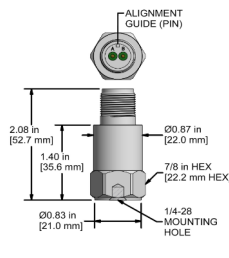
## Regulatory Information

Ex ia IIC T3/T4	Uj = 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	

### AC963-1A

2 Pin Connector

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

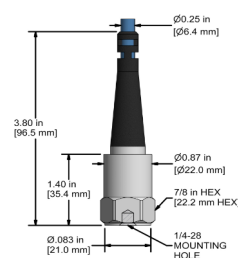


**Stock Product**

### AC963-2C

CB193 Integral Cable

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

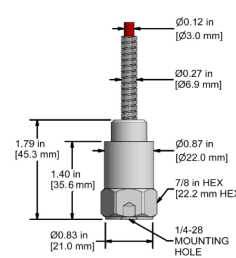


**Built To Order**

### AC963-3C

CB296 Armored Integral Cable

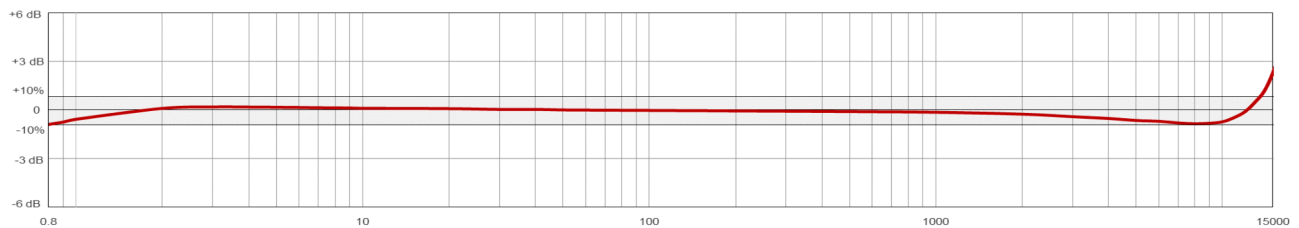
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



**Built To Order**

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC963	M/AC963	<b>Environmental</b>		
Sensitivity (±10%)		50 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-240,000 CPM		Electromagnetic Sensitivity		CE
Dynamic Range		± 100 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	<b>Physical</b>		
Voltage Source (IEPE)		18-28 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-4 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		9 µg/√Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz		2 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		1.6 µg/√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	1,380,000 CPM	23000 Hz
Case Isolation		>10 <sup>9</sup> ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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