

# 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**  
**UK**  
**CA**



## 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 Ex ia I Ma	
Ambient Temperature Range = ANZEx 18.4160	
-40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range =	
-40 to 125°C	

AC963-1A 2 Pin Connector	AC963-2C CB193 Integral Cable	AC963-3C CB296 Armored Integral Cable																								
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Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC963	M/ or M8/AC963	<b>Environmental</b>		
Sensitivity (±10%)	50 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15,000 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 Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000	23000 Hz
Case Isolation	>10 <sup>8</sup> ohm				