

AC966 Series



VIBRATION ANALYSIS HARDWARE

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



Regulatory Information

Ex ia IIC T3/T4
 AEx ia IIC T3/T4
 CLI Groups A, B, C, D
 CLII Groups F, G
 CLIII

Ui = 28 Vdc Ii = 100 mA
 CSA 221421
 IECEx CSA 07.0001
 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

AC966-1A 2 Pin Connector	AC966-2C CB193 Integral Cable	AC966-3C CB296 Armored Integral Cable																						
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Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC966	M/AC966	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-516,000 CPM	0,5-8600 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±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		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		Physical		
Constant Current Excitation	2-4 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,320,000 CPM	22000 Hz