

AC969 Series

Premium Low Capacitance, Intrinsically Safe IEC Certified (IECEx / ANZEx / PESO / KC / EAC) Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, $\pm 5\%$

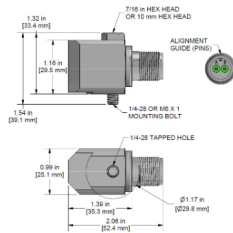


Regulatory Information

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	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	

AC969-1A
2 Pin Connector

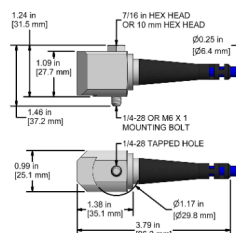
Connector	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC969-2A
CB193 Integral Cable

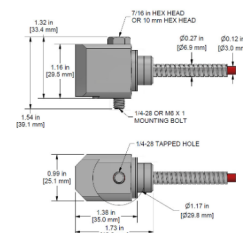
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC969-3A
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	AC969	M/AC969	Environmental		
Sensitivity (±5%)		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	Sensing Element		PZT Ceramic
Constant Current Excitation		2-4 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		6.5 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 100 Hz		2 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		1.8 µg/√Hz	Mounting Thread		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation		>10 ⁸ ohm			