

AC969 Series

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



CE
IECEx
ANZEx
PESO
UK
CA



Regulatory Information

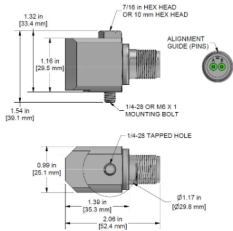
Ex ia IIC T3/T4
AEx ia IIC T3/T4
CLI Groups A, B, C, D
CLII Groups F, G
CLIII

Ui = 28 Vdc li = 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

AC969-1A

2 Pin Connector

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

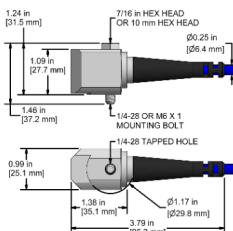


Stock Product

AC969-2A

CB193 Integral Cable

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

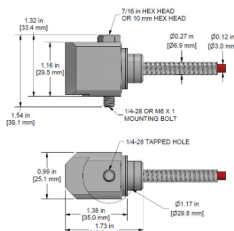


Built To Order

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		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