

AC964 Series

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



CE
IECEX
ANZEx
PESO
UK
CA



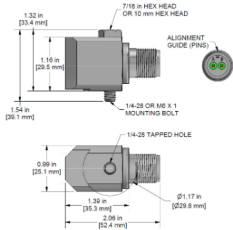
Regulatory Information

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

AC964-1A
2 Pin Connector

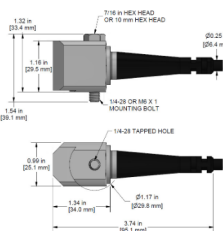
Connector	Polarity
Pin	(+)
A	Signal/Power
B	(-) Common



Stock Product

AC964-2C
CB193 Integral Cable

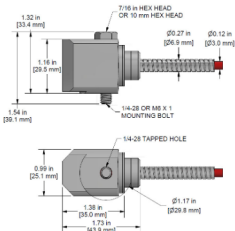
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC964-3C
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	AC964	M/AC964	Environmental		
Sensitivity (±10%)		50 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	90-300,000 CPM		Electromagnetic Sensitivity	CE	
Dynamic Range		± 100 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		9 µg/√Hz	Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz		2 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz		1.6 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
			Mounting Torque	2 to 5 ft.	2,7 to 6,8