

AC965 Series

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



Regulatory Information

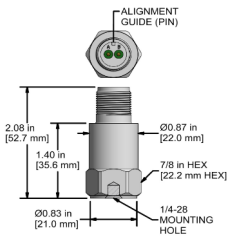
Ex ia IIC T3/T4
AEx ia IIC T3/T4
CLI Groups A, B, C, D
CLII Groups F, G
CLIII

Ui = 28 Vdc 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

AC965-1A
2 Pin Connector

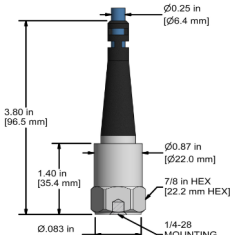
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common



Stock Product

AC965-2C
CB193 Integral Cable

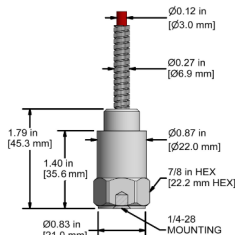
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC965-3C
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	AC965	M/ or M8/AC965	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1.0-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±5%)	600-300,000 CPM	10-5000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 50 g, peak		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<3 Seconds		Sensing Structure	Shear Mode	
Voltage Source (IEPE)	18-28 VDC		Weight	3.2 oz	91 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	30 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 100 Hz	19 µg/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Spectral Noise @ 1000 Hz	15 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance	<100 ohm				