

AC949 Series

Nonincendive, CSA North America Class I, Division 2, Class II, Division 1, Class III, ATEX/IECEx Zone 2, 22 Approved Biaxial Accelerometer, Side Exit 3 Pin Connector, with X and Z Axis, 100 mV/g, $\pm 10\%$



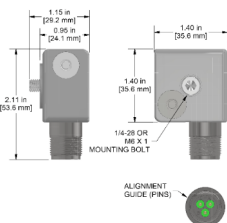
Regulatory Information

CSA 221421	Ex ec IIC T**C Gc
CSA 25CA80263368X	Ex tc IIIC T135°C Dc
CLI, DIV 2, GRP A, B, C and D T3/T4	T4, T135°C for ambient
CLII, DIV 1, GRP E, F and G T135°C	temperature range of -40°C to +80°C
CLIII	T3 for ambient temperature range of -40°C to +121°C
Ex ec IIC T* Gc	*Temperature Class depends on the ambient temperature
Ex tc IIIC T135°C Dc	Vmax=28VDC Imax=10mA
CLI, ZN 2, AEx ec IIC T* Gc	Install per INS10208
ZN 22, AEx tc IIIB T135°C Dc	Reference Product Manual MNX10132
*Temperature Class depends on the ambient temperature	
T4, T135°C for ambient temperature range of -40°C to +80°C	
T3 for ambient temperature range of -40°C to +121°C	
Vmax = 28VDC Imax = 10mA	
Reference Product Manual MNX10128 / Install Per INS10191	
Approved Cabling: CB192*, CB218, CB298	
(*Approved for Use in T4 Applications Only)	
IECEx CSA 24.0015X	
	CSACA 24 ATEX1004X
	Ex ec IIC T**C Gc
	Ex tc IIIC T135°C Dc
	T4, T135°C for ambient
	temperature range of -40°C to +80°C
	T3 for ambient temperature range of -40°C to +121°C
	*Temperature Class depends on the ambient temperature
	Vmax=28VDC Imax=10mA
	Install per INS10209
	Reference Product Manual MNX10133

AC949-1D

3 Pin Connector

Connector Pin	Polarity
A (Axis X)	(+) Signal/Power
B (Axis Z)	(+) Signal/Power
C	(-) Common

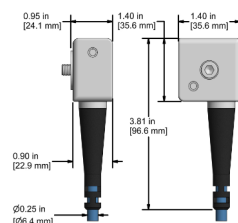


Stock Product

AC949-2D

CB192 Integral Cable

Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common

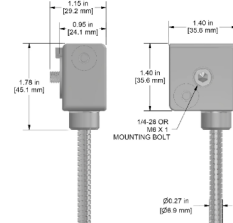


Built To Order

AC949-3D

CB298 Armored Integral Cable

Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC949	M/AC949	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	60-390,000 CPM	1,0-6500 Hz	Maximum Shock Protection	CE	
Dynamic Range	± 50 g, peak		Sealing	Welded, Hermetic	
Transverse Sensitivity	$\leq 5\%$		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<2.5 seconds		Sensing Structure	Shear Mode	
Voltage Source	18-28 VDC		Weight	6.9 oz	195 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Thread	1/4-28	
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

