

AC934 Series

Nonincendive, CSA North America Class I, Division 2, Class II, Division 1, Class III, ATEX/IECEx Zone 2,22 Approved Accelerometer, Side Exit 2 Pin Connector, 50 mV/g, $\pm 10\%$



Regulatory Information

CSA 221421
CSA 25CA80263368X
CLI, DIV 2, GRP A, B, C and D T3/T4
CLII, DIV 1, GRP E, F and G T135°C
CLIII
Ex ec IIC T* Gc
Ex tc IIIC T135°C Dc
CLI, ZN 2, AEx ec IIC T* Gc
ZN 22, AEx tc IIIB T135°C Dc
*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

T3 for ambient temperature range of -40°C to +121°C
*Temperature Class depends on the ambient temperature
Vmax=28VDC Imax=10mA
Install per INS10208
Reference Product Manual MNX10132

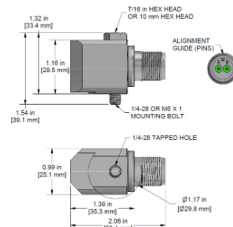
CSACa 24 ATEX1004X
Ex ec IIC T* Gc
Ex tc IIIC T135°C Dc
T4, T135°C for ambient temperature range of -40°C to +80°C
T3 for ambient temperature range of -40°C to +121°C
*Temperature Class depends on the ambient temperature
Vmax=28VDC Imax=10mA
Install per INS10209
Reference Product Manual MNX10133

Approved Cabling: CB102, CB111, CB190*, CB206, CB296 (*Approved for Use in T4 Applications Only)

AC934-1A

2 Pin Connector

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

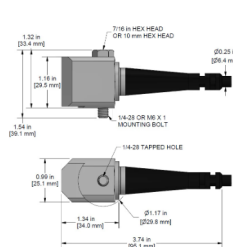


Stock Product

AC934-2C

CB190 Integral Cable

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

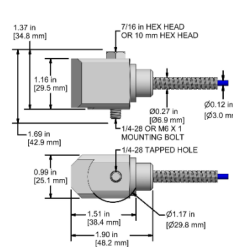


Built To Order

AC934-3C

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	AC934	M/AC934	Environmental		
Sensitivity ($\pm 10\%$)		50 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	48-516,000 CPM	0.8-8600 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	90-300,000 CPM	1.5-5000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 100 g, peak	Sealing		IP68
Transverse Sensitivity		$\leq 5\%$	Submersible Depth	200 ft.	91 m
Electrical			SIL Rating		SIL 2
Settling Time		<3 Seconds	Physical		
Voltage Source		18-28 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		35 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	5.3 oz	151 grams
Spectral Noise @ 100 Hz		25 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		25 $\mu\text{g}/\sqrt{\text{Hz}}$	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	1,260,000 CPM	21000 Hz
Case Isolation		>10 ⁹ ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response

