

AC935 Series

Nonincendive, CSA North America Class I, Division 2, Class II, Division 1, Class III, ATEX/IECEx Zone 2, 22 Approved Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



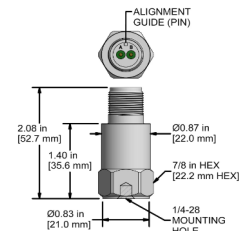
Regulatory Information

CSA 221421	T3 for ambient temperature range of -40°C to +121°C
CSA 25CA80263368X	*Temperature Class depends on the ambient temperature
CL I, DIV 2, GRP A, B, C and D T3/T4	Vmax=28VDC Imax=10mA
CL II, DIV 1, GRP E, F and G T135°C	Install per INS10208
CL III	Reference Product Manual MNX10132
Ex ec IIC T* Gc	
Ex tc IIIC T135°C Dc	
CL I, ZN 2, AEx ec IIC T* Gc	
ZN 22, AEx tc IIIB T135°C Dc	
*Temperature Class depends on the ambient temperature	CSACa 24 ATEX1004X
T4, T135°C for ambient temperature range of -40°C to +80°C	Ex ec IIC T*°C Gc
T3 for ambient temperature range of -40°C to +121°C	Ex tc IIIC T135°C Dc
Vmax = 28VDC Imax = 10mA	T4, T135°C for ambient temperature range of -40°C to +80°C
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
IECEx CSA 24.0015X	Vmax=28VDC Imax=10mA
Ex ec IIC T*°C Gc	Install per INS10209
Ex tc IIIC T135°C Dc	Reference Product Manual MNX10133
T4, T135°C for ambient temperature range of -40°C to +80°C	
	Approved Cabling: CB102, CB111, CB190*, CB206, CB296 (*Approved for Use in T4 Applications Only)

AC935-1A

2 Pin Connector

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

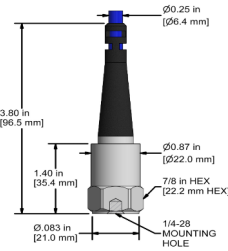


Stock Product

AC935-2C

CB190 Integral Cable

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

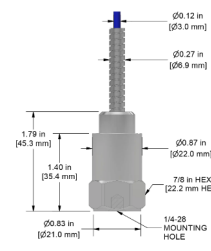


Built To Order

AC935-3C

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	AC935	M/ or M8/AC935	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	
Dynamic Range	± 80 g, peak		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	≤5%		Sealing	Welded, Hermetic	
Electrical			Physical		
Settling Time	<3.5 Seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.2 oz	91 grams
Spectral Noise @ 10 Hz	30 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	19 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 1000 Hz	15 µg/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

