

AC940 Series

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



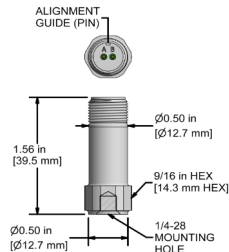
Regulatory Information

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: CB102, CB111, CB190*, CB206, CB296 (*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

AC940-1D

2 Pin Connector

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

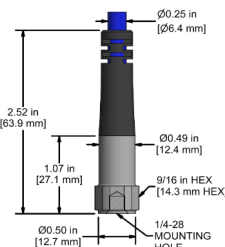


Stock Product

AC940-2D

CB190 Integral Cable

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

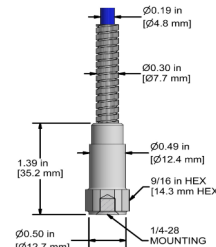


Built To Order

AC940-3D

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	AC940	M/ or M8/AC940	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	50 to 121 °C
Frequency Response (±3dB)	36-900,000 CPM	0.6-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-420,000 CPM	1,0-7000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 g, peak		Sealing	Welded, Hermetic	
Transverse Sensitivity	≤5%		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<2.5 seconds		Sensing Structure	Shear Mode	
Voltage Source	18-28 VDC		Weight	0.7 oz	20 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	4 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL, J Series	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Resonant Frequency	2,040,000 CPM	34000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	

Typical Frequency Response

