

AC944 Series

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



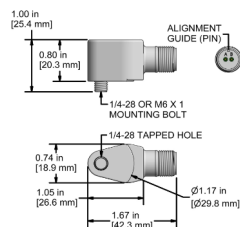
Regulatory Information

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
CLIII	+80°C
Ex ec IIC T* Gc	T3 for ambient temperature range
Ex tc IIIC T135°C Dc	of -40°C to +121°C
CLI, ZN 2, AEx ec IIC T* Gc	*Temperature Class depends on
ZN 22, AEx tc IIIB T135°C Dc	the ambient temperature
*Temperature Class depends on the ambient	Vmax=28VDC Imax=10mA
temperature	Install per INS10208
T4, T135°C for ambient temperature range of	Reference Product Manual
-40°C to +80°C	MX10132
T3 for ambient temperature range of -40°C to	
+121°C	
Vmax = 28VDC Imax = 10mA	CSACa 24 ATEX1004X
Reference Product Manual MX10128 / Install	Ex ec IIC T**C Gc
Per INS10191	Ex tc IIIC T135°C Dc
	T4, T135°C for ambient
	temperature range of -40°C to
	+80°C
Approved Cabling: CB102, CB111, CB190*, CB206,	T3 for ambient temperature range
CB296 (*Approved for Use in T4 Applications	of -40°C to +121°C
Only)	*Temperature Class depends on
	the ambient temperature
IECEx CSA 24.0015X	Vmax=28VDC Imax=10mA
	Install per INS10209
	Reference Product Manual
	MX10133

AC944-1D

2 Pin Mini-MIL Connector

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

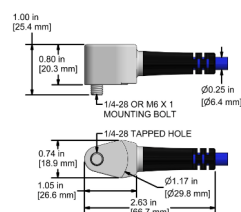


Stock Product

AC944-2D

CB190 Integral Cable

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

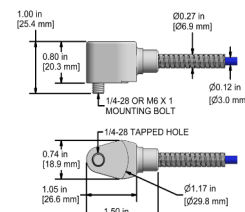


Built To Order

AC944-3D

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	AC944	M/AC944	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	36-600,000 CPM	0.6-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 50 g, peak		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	≤5%		Sealing	Welded, Hermetic	
Electrical			SIL Rating	SIL 2	
Settling Time	<2.5 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	30 µg/√Hz		Weight	2.1 oz	60 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting Thread	1/4-28	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin mini-MIL (J Series)	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,920,000 CPM	32000 Hz
Case Isolation	>10 ⁸ 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

