

AC940 Series

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

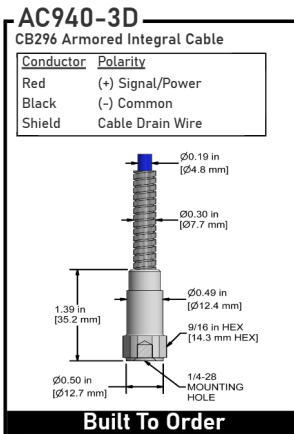
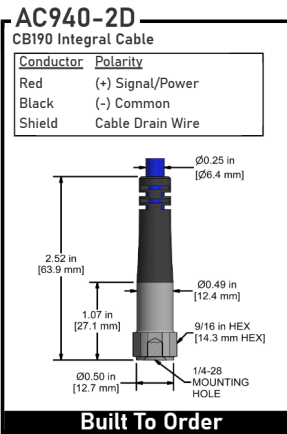
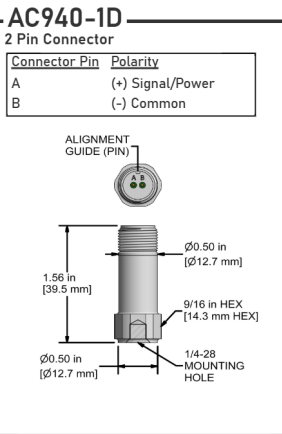


VIBRATION ANALYSIS HARDWARE



Regulatory Information

CSA 221421	CSACa 24ATEX1004X
Ex nA IIC T3 Gc	IECEX CSA 240015X
Cl, Z2, AEx nA IIC T3 Gc	Ex ec IIC T* °C Gc
Cl, D2, Gr A -D, ClI, D1, ClII T3	Ex tc IIIC T135 °C Dc
-40°C = Ta = +121°C	Temperature code for gas for ambient range:
Control Drawing INS10035	T4 for ambient range of -40 °C to +80 °C
Ui = 28VDC, Ii = 100mA, Pi = 100mW, Ci = 0nF, Li = 51µH	T3 for ambient range of -40 °C to +121 °C
Approved Cabling: CB102, CB103*, CB111, CB190*, CB193*, CB296 (*Approved for Use in T4 Applications Only)	V = 28VDC I = 10mA



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	
Electrical			Physical		
Settling Time	<2.5 seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	0.7 oz	20 grams
Spectral Noise @ 10 Hz	30 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL, J Series	
Output Impedance	<100 ohm		Resonant Frequency	2,040,000 CPM	34000 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

