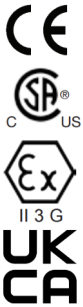


# AC940 Series



Miniature Industrial, Class I, Division 2 / Zone 2 Accelerometer, Top Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±10%

VIBRATION ANALYSIS HARDWARE



## Regulatory Information

Ex nA IIC T3C Gc	Ui = 28 Vdc Ii = 100 mA
AEx nA IIC T3C Gc	Ci = 0µf Li = 51µH Pi =
CLI Groups A, B, C, D	100 mW
CLII Groups E, F, G; CLIII	CSA 221421
CLI, Zone 2	Sira 15ATEX2152X
Operating Temperature Code: T3C	Ex nA IIC T3 Gc
Ambient Temperature Range =	-40 to 121°C

AC940-1D 2 Pin Connector	AC940-2D CB190 Integral Cable	AC940-3D CB296 Armored Integral Cable																						
<table border="1"> <thead> <tr> <th>Connector</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>Pin A</td> <td>(+) Signal/Power</td> </tr> <tr> <td>Pin B</td> <td>(-) Common</td> </tr> </tbody> </table> <p><b>Stock Product</b></p>	Connector	Polarity	Pin A	(+) Signal/Power	Pin B	(-) Common	<table border="1"> <thead> <tr> <th>Conductor</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>(+) Signal/Power</td> </tr> <tr> <td>Black</td> <td>(-) Common</td> </tr> <tr> <td>Shield</td> <td>Cable Drain Wire</td> </tr> </tbody> </table> <p><b>Built To Order</b></p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire	<table border="1"> <thead> <tr> <th>Conductor</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>(+) Signal/Power</td> </tr> <tr> <td>Black</td> <td>(-) Common</td> </tr> <tr> <td>Shield</td> <td>Cable Drain Wire</td> </tr> </tbody> </table> <p><b>Built To Order</b></p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire
Connector	Polarity																							
Pin A	(+) Signal/Power																							
Pin B	(-) Common																							
Conductor	Polarity																							
Red	(+) Signal/Power																							
Black	(-) Common																							
Shield	Cable Drain Wire																							
Conductor	Polarity																							
Red	(+) Signal/Power																							
Black	(-) Common																							
Shield	Cable Drain Wire																							

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC940	M/ or M8/AC940	<b>Environmental</b>		
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	
<b>Electrical</b>			<b>Physical</b>		
Settling Time	<2.5 seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	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			2 Pin	
Output Impedance	<100 ohm		Connector (Non-Integral)	mini-MIL, J Series	
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 <sup>8</sup> ohm		Resonant Frequency	2,040,000 CPM	34000 Hz