

# AC940 Series

**Class I, Division 2/Zone 2 Accelerometer, For Use In "Non-Arcing, Non-Sparking" Environments, Top Exit Connector/Cable, 100 mV/g**

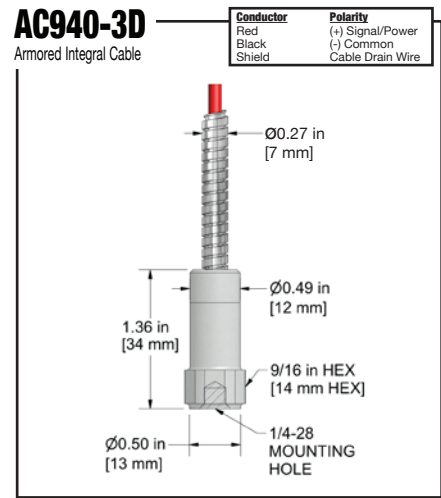
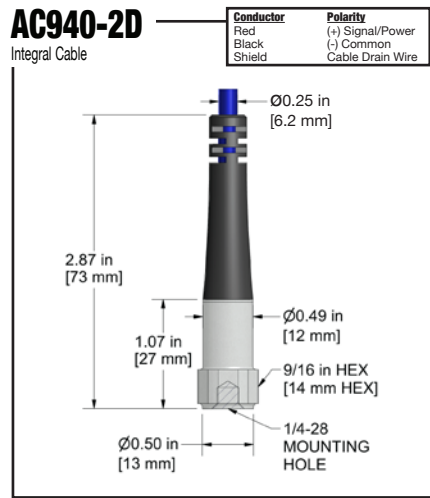
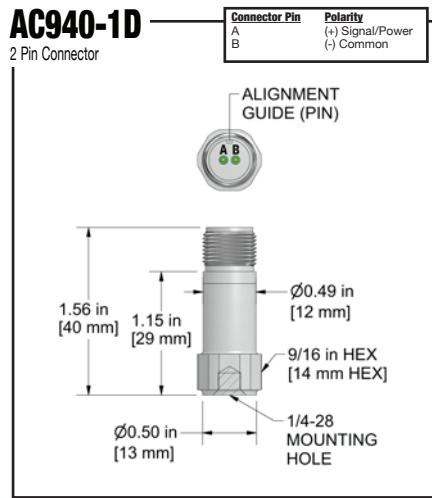
**CSA/ATEX Approved**

**Must Use "Class I, Division 2" CB190 or CB206 Cable and J2Q Connector**



### REGULATORY INFORMATION

Ex nA IIC T3C Gc	Operating Temperature Code: T3C
AEx nA IIC T3C Gc	Ambient Temperature Range = -40°C to +121°C
CLI Groups A, B, C, D	Ui = 28 Vdc li = 100 mA
CLII Groups E, F, G; CLIII	CSA 221421
CL I, Zone 2	Sira 15ATEX2152X
	Ex nA IIC T3 Ga



Specifications	Standard	Metric
Part Number	AC940	M/AC940
<b>Vibration</b>		
Sensitivity (±10%)		100 mV/g
Frequency Response (±3dB)	36-900,000 CPM	0,6-15000 Hz
Frequency Response (±10%)	60-420,000 CPM	1,0-7000 Hz
Dynamic Range		± 50 g, peak
<b>Electrical</b>		
Settling Time		<2.5 seconds
Voltage Source (IEPE)		18-28 VDC
Constant Current Excitation		2-10 mA
Spectral Noise @ 10 Hz		30 µg/√Hz
Spectral Noise @ 100 Hz		4 µg/√Hz
Spectral Noise @ 1000 Hz		2 µg/√Hz
Output Impedance		<100 ohm
Bias Output Voltage		10-14 VDC
Case Isolation		>10 <sup>9</sup> ohm

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection		5,000 g, peak
Electromagnetic Sensitivity		CE
Sealing		Welded, Hermetic
<b>Physical</b>		
Sensing Element		PZT Ceramic
Sensing Structure		Shear Mode
Weight	0.7 oz	20 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		2 Pin mini-MIL, J Series Connectors
Integral Cable (AC940-2D)		Blue TPE Cable
Armored Cable (AC940-3D)		Armor Jacketed Cable
Resonant Frequency	2,040,000 CPM	34000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate		CA10

## Ordering Information

Standard	AC940-1D (1/4-28 Stud)	AC940-2D / (1/4-28 Stud)	AC940-3D / (1/4-28 Stud)
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC940-1D (M6x1 Adapter Stud)	M/AC940-2D / (M6x1 Adapter Stud)	M/AC940-3D / (M6x1 Adapter Stud)
		(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

**Read Before Purchasing**  
Important information on Regulatory Approvals and Requirements on Page 67

**Cable Terminations:** L Z



VIBRATION ANALYSIS HARDWARE

**Backed by our Unconditional Lifetime Warranty**