

AC916-M12A Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 4 Pin M12 Pin Connector, 100 mV/g, ±10%



II 1 G D



Regulatory Information

Ex ia IIC T3/T4
 CLI Groups A, B, C, D
 CLII Groups F, G
 CLIII

CSA 22 UKEX 1408X
 Ex ia IIC T3/T4 Ga
 Ex ia I Ma

Sira 15 ATEX 2152X

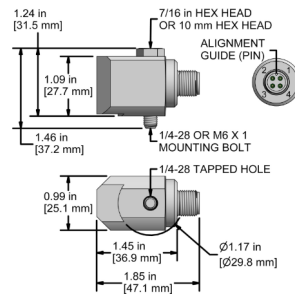
Operating Temperature Code: T4
 Ambient Temperature Range = -40 to 80°C
 Ex ia IIC T3/T4 Ga
 Ex ia I Ma

Operating Temperature Code: T3
 Ambient Temperature Range = -40 to 125°C
 Ex ia IIC T3/T4 Ga
 Ex ia I Ma

Ui = 28 Vdc li = 100 mA
 CSA 221421

AC916-M12A 4 Pin Connector

Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC916-M12A	M/AC916-M12A	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-65 to 257°F	-54 to 125°C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		Physical		
Constant Current Excitation	2-4 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28	
Bias Output Voltage	10-14		Connector (Non-Integral)	4 Pin M12	