

AC916-M12A Series

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



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

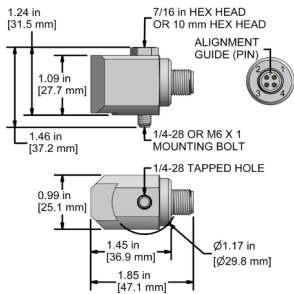
Operating Temperature Code: T3
Ambient Temperature Range = -40 to 125°C

Ui = 28 Vdc li = 100 mA
CSA 221421

Ex ia IIC T3/T4 Ga
Ex ia I Ma
IECEX SIR 15.0060X
E ia I Ma

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	<u>Environmental</u>		
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	
<u>Electrical</u>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		<u>Physical</u>		
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	