

AC915-M12A Series

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



Regulatory Information

Ex ia IIC T3/T4

CL I Groups A, B, C, D

CL II Groups F, G

CL III

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

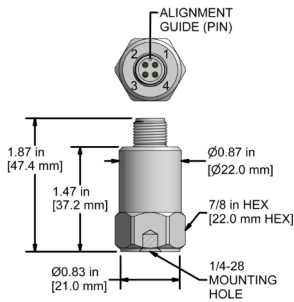
IECEX SIR 15.0060X

Ex ia IIC T3/T4 Ga

Ex ia I Ma

AC915-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	AC915-M12A	M/ or M8/AC915	<u>Environmental</u>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1.0-10000 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		<u>Physical</u>		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-4 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2 µg/√Hz		Case Material	316L	
Spectral Noise @ 1000 Hz	1.8 µg/√Hz			Stainless Steel	
Output Impedance	<100 ohm			0.83 in (21 mm) Diameter	
Bias Output Voltage	10-14				