

AC915 Series

Nonincendive Intrinsically Safe Accelerometer, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



Regulatory Information

CSA 221421
 Ex ia IIC T3/T4 Ga
 Ex ia I Ma
 AEx ia IIC T3/T4
 CLI Groups A, B, C, D
 CLII Groups E, F, G; CLIII
 CLI, Zone 0
 Operating Temp Code: T3
 Ambient Temp Range = -40 to 121°C
 Operating Temp Code: T4
 Ambient Temp Range = -40 to 80°C
 Control Drawing INS10012
 Ex ia IIC T3 -40°C < Ta < +121°C
 Ex ia IIC T4 -40°C < Ta < +80°C

Sira 15ATEX2152X
 IECEx SIR 15.0060X
 Ex ia IIC T3/T4 Ga
 Ex ib IIIC T135°C...T143°C Db
 Operating Temp Code: T143°C Db
 Ambient Temp Range = -40°C to 121°C
 Operating Temp Code: T135°C
 Ambient Temp Range = -40°C to +80°C
 Ex ia I Ma

Connector Exit Entity Parameters:
 Ui = 28 Vdc, li = 120 mA, Pi = 1W, Ci = 0nF, Li = 0µH

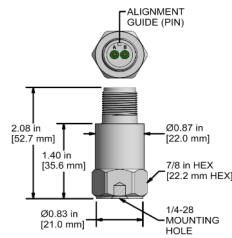
Integral Cable Entity Parameters
 Ui = 28 Vdc, li = 120 mA, Pi = 1W, Ci = 80.4nF, Li = 336µH

1600 ft (488 m) Maximum Allowable
 Integral Cable Length
 Approved Cabling: CB102, CB103*, CB111, CB190*,
 CB193*, CB296 (*Approved for Use in T4
 Applications Only)
 Requires one IS111-IB Intrinsic Safety Barrier

AC915-1A

2 Pin Connector

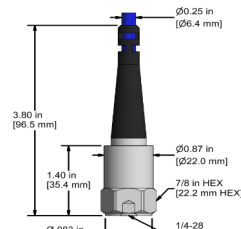
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



AC915-2C

CB193 Molded Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

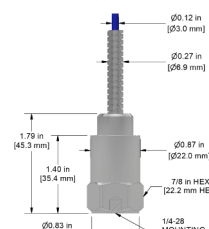


Built To Order

AC915-3C

CB296 Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC915	M/ or M8/AC915	Environmental		
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	
Dynamic Range		± 80 g, peak	Electromagnetic Sensitivity	CE	
Electrical			Sealing	Welded, Hermetic	
Settling Time		<3 Seconds	Submersible Depth	200 ft.	61 m
Voltage Source		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	3.2 oz	90 grams
Spectral Noise @ 1000 Hz		1.8 µg/√Hz	Case Material	316L Stainless Steel	
Output Impedance		<100 ohm	Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage		10-14 VDC	Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation		>10 ⁸ ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

