

TA918 Series

Intrinsically Safe Accelerometer, Dual Output, Temperature/Acceleration, Side Exit Connector/Cable, 100 mV/g, 10 mV/°C

CSA/ATEX/IECEX Approved

Actual Product Size Shown



Featuring an M8 Captive Bolt

REGULATORY INFORMATION

Ex ia IIC T3 Ga
 AEx ia IIC T3 Ga
 CLI Groups A, B, C, D
 CLII Groups E, F, G; CLIII
 CLI, Zone 0
 Operating Temperature Code: T3
 Ambient Temperature Range = -40°C to +121°C
 Control Drawing INS10012

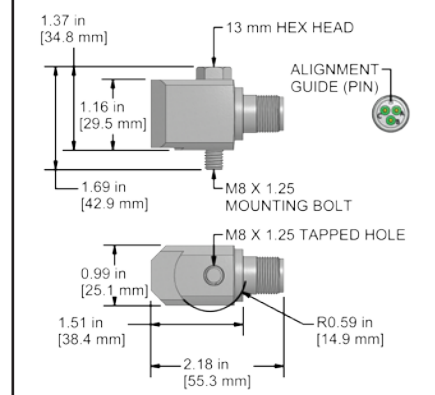
U_i = 28 Vdc I_i = 112 mA
 P_i = 1W, C_i = 1.5nF, L_i = 0μH
 CSA 221421
 Sira 15ATEX2152X
 Ex ia IIC T3 Ga
 IECEx SIR 15.0060X
 Ex ia IIC T3 Ga

Requires **Intrinsically Safe Barrier IS131**

TA918-1A

3 Pin Connector

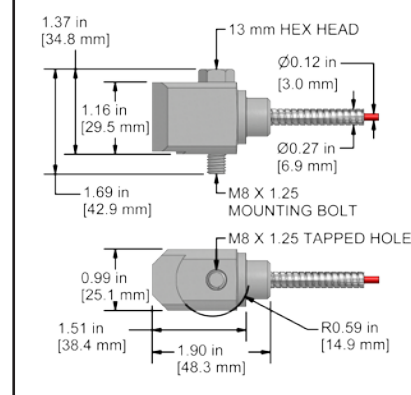
Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common
C	(+) Temperature Voltage



TA918-3C

Armored Integral Cable

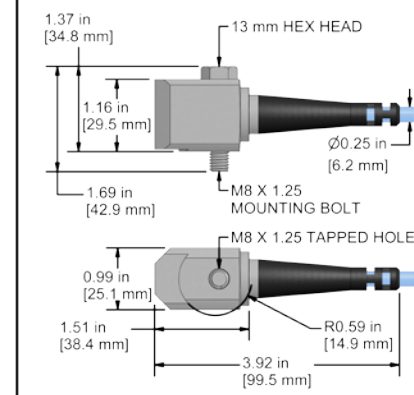
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



TA918-9C

Integral Cable

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



Specifications	Standard	Metric
Part Number	TA918	
Vibration		
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz
Frequency Response (±10%)	120-300,000 CPM	2.0-5000 Hz
Dynamic Range	± 50 g, peak	
Temperature Measurement Range	37° to 250° F	3° to 121° C
Temperature Output	10 mV/°C	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-28 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	8 μg/√Hz	
Spectral Noise @ 100 Hz	0.82 μg/√Hz	
Spectral Noise @ 1000 Hz	0.3 μg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-40 to 250°F	-40 to 121°C
Maximum Shock Protection	5,000 g, peak	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	6.3 oz	180 grams
Case Material	316L Stainless Steel	
Mounting	M8x1.25	
Connector (TA918-1A)	3 Pin MIL-C-5015	
Armored Cable (TA918-3C)	Armor Jacketed Cable	
Integral Cable (TA918-9C)	Blue TPE Jacketed Cable	
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Mounting Hardware	M8 Captive Bolt	
Calibration Certificate	CA10	

Ordering Information

Metric	TA918-1A	TA918-3C /	TA918-9C /
	(M8x1.25 Captive Bolt)	(M8x1.25 Captive Bolt)	(M8x1.25 Captive Bolt)
		(maximum armor length 100 ft.)	(length in feet) (termination)

Cable Terminations: L Z

Read Before Purchasing
 Important information on Regulatory Approvals and Requirements on Page 87

Backed by our Unconditional Lifetime Warranty

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