

TA918 Series

Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, 100 mV/g, 10 mV/°C, 3 Pin Side Exit Connector With M8 Captive Bolt



Regulatory Information

Ex ia IIC T3 Ga

AEx is 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 to 80°C

Control Drawing INS10012

Ui = 28 Vdc li = 112 mA

Pi = 1W, Ci = 1.5nF, Li = 0μH

CSA 221421

CSA 22 UKEX 1408X

Ex ia IIC T3/T4 Ga

Ex ia I Ma

Sira 15ATEX2152X

Ex ia IIC T3 Ga

Ex ia I Ma

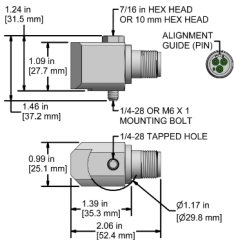
IECEX SIR 15.0060X

Ex ia IIC T3 Ga

Ex ia I Ma

TA918-1A
3 Pin Connector

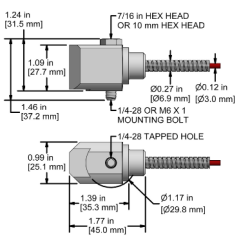
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

TA918-3C
Armored Integral Cable

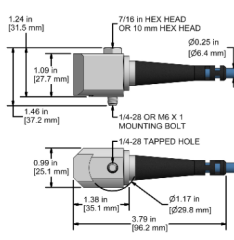
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

TA918-9C
Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)	100 mV/g		Environmental		
Frequency Response (±3dB)	30-600,000 CPM		Operating Temperature Range	-40 to 250°F (-40 to 121°C)	
Dynamic Range	± 50 g, peak		Physical		
Temperature Measurement Range	36.5 to 212°F	2.5 to 100°C	Sensing Element	PZT Ceramic	
Temperature Output	10 mV/°C		Sensing Structure	Shear Mode	
Weight			Weight	6.3 oz	180 grams
Electrical			Case Material	316L Stainless Steel	
Settling Time	<2.5 seconds		Mounting Thread	M8x1.25	
Voltage Source (IEPE)	18-28 VDC		Connector (Non-Integral)	3 Pin MIL-C-5015	
Constant Current Excitation	2-10 mA		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 10 Hz	8 μg/√Hz		Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Spectral Noise @ 100 Hz	0.82 μg/√Hz		Mounting Hardware Supplied	M8 Captive Bolt	
Spectral Noise @ 1000 Hz	0.3 μg/√Hz				
Output Impedance	<100 Ω				