

TA936 Series

Nonincendive, CSA North America Class I, Division 2, Class II, Division 1, Class III, ATEX/IECEx Zone 2, 22 Approved Dual Output Sensor, Acceleration and Temperature, Side Exit 3 Pin Connector, 100 mV/g, 10 mV/°C, ±10%



Regulatory Information

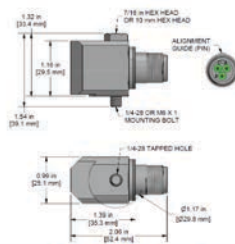
CSA 221421	T4, T135°C for ambient
CSA 25CA80263368X	temperature range of -40°C to +80°C
CL I, DIV 2, GRP A, B, C and D T3/T4	T3 for ambient temperature range of -40°C to +121°C
CL II, DIV 1, GRP E, F and G T135°C	*Temperature Class depends on the ambient temperature
CL III	Vmax=28VDC Imax=10mA
Ex ec IIC T* Gc	Install per INS10208
Ex tc IIIC T135°C Dc	Reference Product Manual MNX10132
CL I, ZN 2, AEx ec IIC T* Gc	CSACa 24 ATEX1004X
ZN 22, AEx tc IIIB T135°C Dc	Ex ec IIC T**C Gc
*Temperature Class depends on the ambient temperature	Ex tc IIIC T135°C Dc
T4, T135°C for ambient temperature range of -40°C to +80°C	T4, T135°C for ambient temperature range of -40°C to +80°C
T3 for ambient temperature range of -40°C to +121°C	T3 for ambient temperature range of -40°C to +121°C
Vmax = 28VDC Imax = 10mA	*Temperature Class depends on the ambient temperature
Reference Product Manual MNX10128 / Install Per INS10191	Vmax=28VDC Imax=10mA
IECEx CSA 24.0015X	Install per INS10209
Ex ec IIC T**C Gc	Reference Product Manual MNX10133
Ex tc IIIC T135°C Dc	

Approved Cabling: CB212, CB191*, CB298 (*Approved for Use in T4 Applications Only)

TA936-1A

3 Pin Connector

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

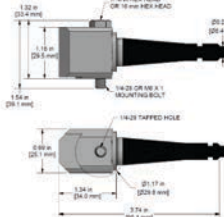


Stock Product

TA936-2C

CB191 Integral Cable

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

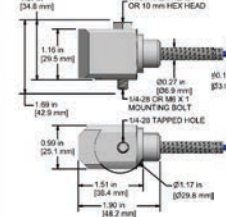


Built To Order

TA936-3C

CB298 Armored 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
Part Number	TA936	M/TA936	Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	Maximum Shock Protection		5,000 g. peak
Dynamic Range		± 80 g. peak	Electromagnetic Sensitivity		CE
Temperature Measurement Range	36.5 to 212 °F	2.5 to 100 °C	Sealing		Welded, Hermetic
Temperature Output		10 mV/°C	Physical		
Transverse Sensitivity		≤5%	Sensing Element		PZT Ceramic
Electrical			Sensing Structure		Shear Mode
Settling Time		<2 Seconds	Weight	5.3 oz	151 grams
Voltage Source		18-28 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting Thread		1/4-28
Spectral Noise @ 10 Hz		30 µg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 100 Hz		19 µg/√Hz	Resonant Frequency	1,260,000 CPM	21000 Hz
Spectral Noise @ 1000 Hz		15 µg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance		<100 ohm	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		>10 ⁸ ohm			

Typical Frequency Response

