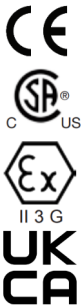


TA938 Series

Low Capacitance, Class I, Division 2 / Zone 2 Dual Output Sensor,  
Acceleration and Temperature, Side Exit 3 Pin Connector, M8  
Captive Bolt, 100 mV/g, 10 mV°C, ±10%



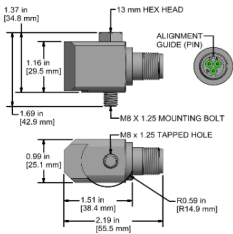
Regulatory Information

Ex nA IIC T3 Gc  
AEx nA IIC T3 Gc  
CLI Groups A, B, C, D  
CLII Groups E, F, G; CLIII  
CLI, Zone 2

Ui = 28 Vdc Li = 100 mA  
Ci = 0µf Li = 51uH Pi =  
100 mW  
CSA 221421  
  
Sira 15ATEX2152X  
  
Operating Temperature Code: T3 Ex nA IIC T3 Gc  
Ambient Temperature Range =  
-40 to 121°C

TA938-1A  
3 Pin Connector

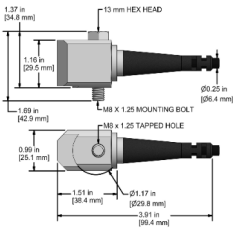
| Connector | Polarity                |
|-----------|-------------------------|
| Pin       |                         |
| A         | (+) Signal/Power        |
| B         | (-) Common              |
| C         | (+) Temperature Voltage |



Stock Product

TA938-2C  
CB191 Integral Cable

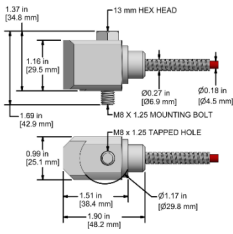
| Conductor | Polarity                |
|-----------|-------------------------|
| Red       | (+) Signal/Power        |
| Black     | (-) Common              |
| White     | (+) Temperature Voltage |
| Shield    | Cable Drain Wire        |



Built To Order

TA938-3C  
CB218 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        |
|-------------------------------|--|-----------------|--------------|-----------------------------|--|----------------------|---------------|
| Sensitivity (±10%)            |  | 100 mV/g        |              | Environmental               |  |                      |               |
| Frequency Response (±3dB)     |  | 30-600,000 CPM  | 0.5-100 Hz   | Operating Temperature Range |  | -40 to 250°F         | -40 to 121°C  |
| Frequency Response (±10%)     |  | 120-300,000 CPM | 2.0-50 Hz    | Maximum Shock Protection    |  | 5,000 g, peak        |               |
| Dynamic Range                 |  | ± 50 g, peak    |              | Sealing                     |  | Welded, Hermetic     |               |
| Temperature Measurement Range |  | 36.5 to 212°F   | 2.5 to 100°C | Physical                    |  |                      |               |
| Temperature Output            |  | 10 mV/°C        |              | Sensing Element             |  | PZT Ceramic          |               |
| Settling Time                 |  | <2.5 seconds    |              | Sensing Structure           |  | Shear Mode           |               |
| Voltage Source (IEPE)         |  | 18-28 VDC       |              | Weight                      |  | 6.3 oz               | 180 grams     |
| Constant Current Excitation   |  | 2-10 mA         |              | Case Material               |  | 316L Stainless Steel |               |
| Spectral Noise @ 10 Hz        |  | 8 µg/√Hz        |              | Mounting Thread             |  | M8x1.25              |               |
| Spectral Noise @ 100 Hz       |  | .82 µg/√Hz      |              | Connector (Non-Integral)    |  | 3 Pin MIL-C-5015     |               |
| Spectral Noise @ 1000 Hz      |  | .3 µg/√Hz       |              | Resonant Frequency          |  | 1,260,000 CPM        | 21000 Hz      |
|                               |  |                 |              | Mounting Torque             |  | 2 to 5 ft. lbs.      | 2.7 to 6.8 Nm |
|                               |  |                 |              | Mounting Hardware Supplied  |  | M8 Captive           |               |