

Embedded tri-axial accelerometer with PT1000

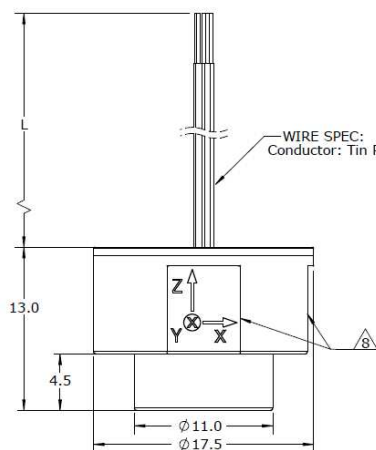
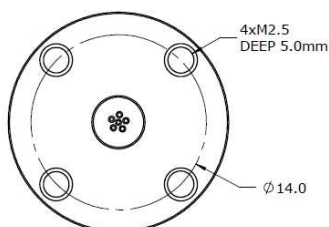


Features

- Miniature size
- Adhesive or screw mounting
- Hermetic seal
- Wide temperature range
- Wide frequency response
- Cost effective

Application

- Embedded monitoring
- Shock recorder
- Machine monitoring



Dynamic

Sensitivity, $\pm 10\%$, 25°C (XY/Z).....	62.7/30 mV/g
Acceleration range(XY/Z)	16/50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
Z axis($\pm 3\text{dB}$).....	0.5 - 12,000 Hz
X&Y axis($\pm 3\text{dB}$).....	0 - 1,600 Hz
Resonance frequency(Z).....	38 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response, max.:	
-40°C	-10%
$+85^\circ\text{C}$	+10%

Electrical

Power requirement: voltage source	3.0 – 3.6 VDC
Broadband Resolution(XY).....	12 mg RMS
Output impedance, max.....	100 Ω
Insulation resistance(@500Vdc).....	>100 M Ω
Bias output voltage.....	VCC/2

Environmental

Temperature range.....	-40 to 85°C
Vibration limit.....	500 g peak
Shock limit.....	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 $\mu\text{g/gauss}$
Sealing	Epoxy sealed

Physical

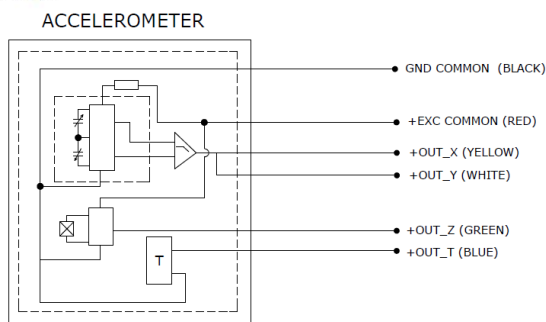
Temperature element(B class).....	PT1000
Temperature output.....	-50 to 120°C
Weight.....	5.5 grams
Case material.....	SST
Output connection.....	Cable

Accessories

4 X M2.5 mounting screws

Calibration certificate

Note: Frequency response limits spectral and noise values are typical



Ordering Information

561BT-50-1

