

## Contact

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## Piezo resistive Accelerometer

**BST 24C** triaxial

### Features

- Anodized Aluminium Housing
- DC Response
- Damped
- SAE J211 conform
- Low Mass

### Application

- Crash test
- Shock test

### Description

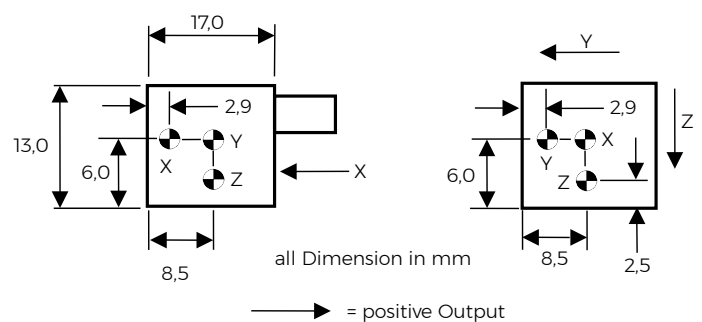
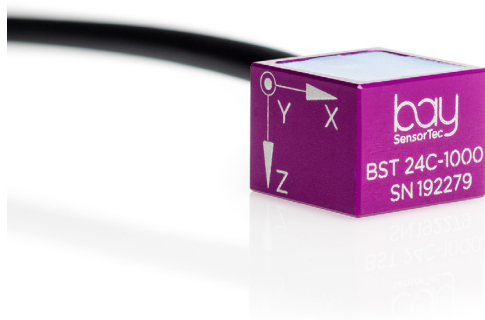
The new model **BST 24C** is a triaxial accelerometer based on piezo resistive technology. With a four-active arm Wheatstone-Bridge (4 wire system) configuration and a damping ratio 0.7 helps to connect the sensor on all data acquisition systems. The light weight and small size of the sensor makes it easy to mount it on difficult places. The sensor is useable for crash test and flutter test.

Do to the anodized aluminium housing the mounting is easy with a glue. The sensor has 6 m very high rugged and flexible 4-wire per axe cable.

As an option, we supply the sensor with a Dallas ID and a Shunt resistor in the connector if it possible.

A calibration for the sensor is obligatory

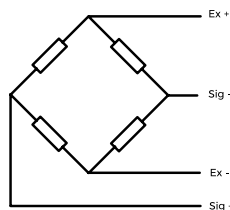
### Dimensions



## Specifications

Range (g)	500	1000	2000
Sensitivity (mV/V/g)	0,035	0,018	0,016
Frequency 5% (Hz)	2000	2750	3000
Resonance Frequency (kHz)	>13	>18	> 20
Damping ratio	0.7	0.7	0.7
Shock limit (g)	6000	8000	8000
Supply voltage	3 to 10 VDC constant		
Zero measurement output	+/- 50 mV		
Thermal Shift Zero	< +/- 0.04 % FSO	(0° to 50° C)	
Thermal Shift Span	- 0.2 % /°C +/- 0.05	(0° to 50° C)	
Non-Linearity	< 1 % of FSO		
Transverse sensitivity	2 % typ. (3 % max.)		
Operation Temperature	-20° to 80° C		
Storage Temperature	-25° to 100° C		
Material	Aluminium, anodized		
Dimensions	17.0 x 17.0 x 13.0 mm		
Weight Housing	17 gram without cable		
Weight Cable	30 gram per meter		
Cable	6 m, 12 wire, shielded PUR, AWG 30		

## Diagram



## Cable Code

### x-axis

red / violet = Excitation +  
black / violet = Excitation -

green / violet = Signal +  
white / violet = Signal -

### y-axis

red / grey = Excitation +  
black / grey = Excitation -

green / grey = Signal +  
white / grey = Signal -

### z-axis

red = Excitation +  
black = Excitation -

green = Signal +  
white = Signal -

## Order information

### BST 24C-1000-6Z

24C = model name  
1000 = Range 1000 g  
6 = 6 m Cable  
Z = no connector