

Preliminary!



Piezoresistive Accelerometer BST 11CF Uniaxial

Features

- DC Response
- High Shock
- Calibration
- Aluminium Housing
- Small Size
- Meets SAE J211

Application

- Crash Test
- Test-Bed Applications

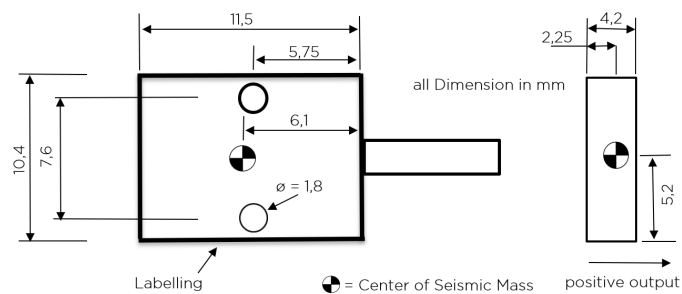
Description

The new model BST 11C is a uniaxial accelerometer based on piezo resistive technology. The fully Wheatstone-Bridge (4 wire system) configuration 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 positions at the car for a crash test or for a test bed application.

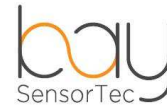
Due to the anodized aluminium housing to mount it with glue on difficult positions. With the 6m, rugged, shielded and flexible 4-wire the connectors are easily mountable. As an option, we supply the sensor with a Dallas ID and a Shunt resistor in the connector.

A calibration for the sensor is obligatory.

Dimensions



Preliminary!

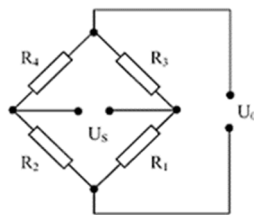


Specification

Range (g)	500	1000	2000
Sensitivity typ. (mV/V/g)	0,035	0,018	0,016
Frequency 5% typ. (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 V DC constant		
Zero measurement output	+/- 50 mV		
Thermal Shift Zero	< +/- 0.05 % FSO	(0° to 50° C)	
Thermal Shift Span	- 0.2 % /°C +/- 0.05	(0° to 50° C)	
Operation Temperature	-40° to +80° C		
Storage Temperature	- 55°C to +125°C		
Transverse sensitivity	2% typ. 3% max.		
Non-Linearity	< 1%		
Housing Material	Aluminium, anodized		
Mounting	2 screws, 0 - 80 UNF or M 1,6		
Dimensions	11.5 x 10.4 x 4,2 mm		
Housing Weight	3 grams		
Cable	integrated, 4 wire, shielded 6 m AWG 32		
Cable Weight	10 grams per meter, Ø 2,3 mm		
Calibration	at 10 Vdc @ 23°C.		

Diagram



Cable Code

Red = Excitation + Green = Signal +
Black = Excitation - White = Signal -

Order information

BST 11CF-1000-6Z
11CF = model name
1000 = Range 1000 g
6 = 6 m Cable
Z = no connector

Optional

Connector
Different Cable Length
Dallas
Shunt Resistor