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Piezo resistive Accelerometer

BST 10C Uniaxial

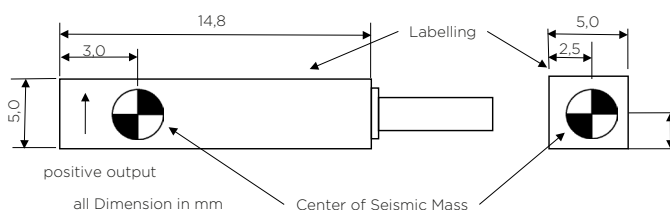
Features

- Very small size and rugged
- Anodized Aluminium Housing
- Meets SAE J-211

Application

- Crash test
- Shock test

Dimensions



Description

The new model BST 10C is a uniaxial accelerometer based on piezo resistive technology. This accelerometer meets SAEJ211 specifications for instrumentation for impact testing. With the fully Wheatstone-Bridge (4 wire system) configuration helps to connect the sensor on all data acquisition systems. The very 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 shock test application.

Do to the anodized aluminium housing and the position of the seismic mass makes it possible to use it for crash test. With a 6m, very rugged, shielded and flexible 4-wire cable are all common connectors are mountable. As an option, we supply the sensor with a Dallas ID and a Shunt resistor in the connector.

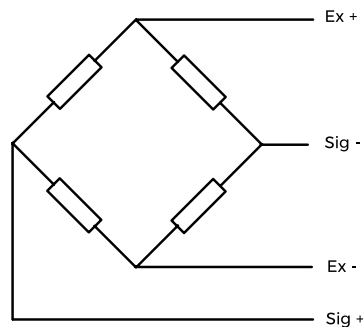
A calibration for the sensor is obligatory.



Specifications

Range	1000	2000 (g)
Sensitivity typ.	0,018	0,016 (mV/V/g)
Supply voltage	3 to 10 VDC constant	
Zero measurement output	+/- 50 mV	
Frequency 5% typ	0 to 3000 Hz	
Damping ratio	0.05 typ	
Shock limit	8000 g	
Operation Temperature	-20° to 70° C	
Dimensions	14,8 x 5,0 x 5.0 mm	
Weight	1 gram without cable	
Bridge Resistance	1500 to 2000 Ohm	
Cable	6m, 4wire, shielded PUR, AWG 32	

Diagram



Cable Code

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

Order information

BST 10C-2000-6Z
 10C = Model Name
 2000 = Range 2000g
 6 = 6m cable
 Z = no connector