Piezo resistive Accelerometer
BST 10C Uniaxial

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

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.

Application
- Crash test
- Shock test

Dimensions

![Dimensions Diagram]
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