Contact
+49 89 189 41 49-11
info@bay-sensortec.com

Piezo resistive Accelerometer

BST 16C Uniaxial

Features

- Damping 0.7
- Very small size and rugged
- Anodized Aluminium Housing

Application

- Crash test
- Shock test

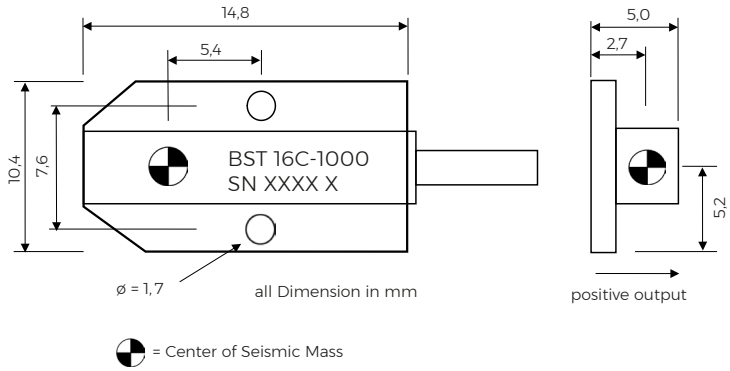
Description

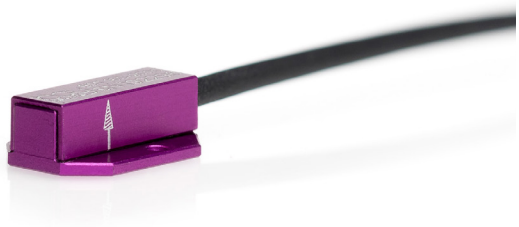
The new model **BST 16C** is a uniaxial accelerometer based on piezo resistive technology. This accelerometer is designed for impact testing. With the fully Wheatstone-Bridge (4 wire system) configuration helps to connect the sensor on all data acquisition systems. The very light weight and small size 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.

Dimensions

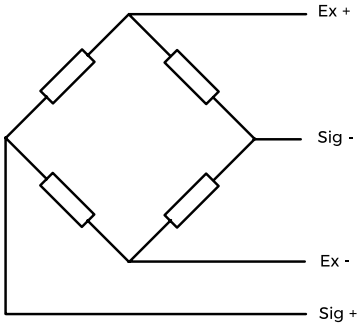




Specifications

Range	1000 g
Sensitivity typ.	0,018 mV/V/g
Supply voltage	3 to 10 VDC constant
Zero measurement output	+/-50 mV typ
Frequency 5% typ	0 to 3000 Hz
Damping ratio	0.7 typ
Shock limit	8000 g
Operation Temperature	-20° to 70° C
Dimensions	14,8 x 10.4 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 16C-2000-6Z
16C = Model Name
2000 = Range 2000 g
6 = 6 m cable
Z = no connector

Bay SensorTec GmbH | Erfurter Straße 31 | 85386 Eching | T +49 89 189 41 49-11 | F +49 89 189 41 49-29 | M +49 151 200 257 20
info@bay-sensortec.com | www.bay-sensortec.com