



Piezoresistive Accelerometer

BST 16C

Uniaxial

Features

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

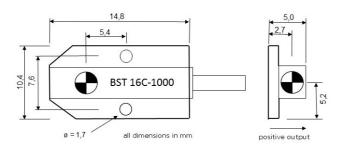
Application

- 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





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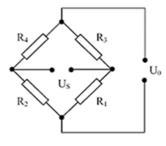


Specifications

Range Sensitivity typ. Frequency 2% max. 5% typ. Supply voltage Zero measurement output Thermal Shift Zero Thermal Shift Span Damping ratio **Resonance Frequency** Non-Linearity Transverse sensitivity Shock limit **Operation Temperature** Material Dimensions Weight **Bridge Resistance** Cable

500 g 1000 g 2000 g 0,04 mV/V/g 0,018 mV/V/g 0,016 mV/V/g 2000 Hz 1000 Hz 1800 Hz 2500 Hz 3000 Hz 3500 Hz 3 to 10 VDC constant +/-50 mV typ < +/- 0.04 % FSO (0° to 50° C) - 0.2 % /°C +/- 0.05 (0° to 50° C) 0.7 typ +/- 18 kHz < 1% of FSO 2% typ (3% max.) 8000 g -20° to 70° C Aluminium, anodized 14,8 x 10.4 x 5.0 mm 1.5 gram without cable 1800 to 2200 Ohm 6 m, 4 wire, shielded PUR, AWG 32

Diagram



Cable Code

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

Order information

BST 16C-1000-6Z 16C = Model name 1000 = Range 1000 g 6 = 6 m Cable, Z = no connector

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