Capacitive Accelerometer
BST 54K2 Uniaxial

Features
- Anodized Aluminium Housing
- Option: Stainless Steel
- DC Response
- Voltage Output
- Calibration

Application
- Truck and Busses
- Train
- Motion
- Automotive
- Comfort

Description
The new model BST 54K2 is a uniaxial accelerometer based on variable capacitive technology with a good frequency response. The accelerometers are designed for relatively low amplitudes. Due to the mounting with two screws, the sensor has 6m very high rugged and flexible cable which makes it easy to connect the sensor on data acquisition systems. It operates between 8 and 30 VDC unregulated. The housing is available in Aluminium and Stainless Steel.

As an option, we supply the sensor with connector, Dallas ID or TEDS module.

A calibration for the sensor is obligatory.

Dimensions
Specifications

Range from 1 g to 200 g
Sensitivity 10 mV/g up to 2000 mV/g
Supply voltage 8 to 30 VDC unregulated
Power Consumption max. 3 mA
Zero measurement output +/- 30 mV typ in Differential Mode (≥ 2 g)
                           +/- 150 mV typ in Differential Mode (1 g)
                           2500 mV DC +/- 150 mV in Single Ended Mode
Frequency 5% typ 0 Hz to 1000 Hz
Shock limit 5000 g
Operation Temperature -20° to 100° C
Dimensions 25.1 x 20.3 x 8.0 mm (l x w x h)
Weight 20 grams
Case material anodized Aluminium
Option: Stainless Steel

Individual Data

Range g 1  2  5  10  30  50  100  200
Frequency Hz 0-60 0-90 0-90 0-500 0-800 0-1000 0-1000 0-1000
Sensitivity mV/g 2000 1000 400 200 66 40 20 10

Cable Code Differential

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

Cable Code Single ended

Red = Excitation +  Black = Excitation –  Green = Signal

Order information

BST 54K2A-050-6Z
54K2 = Model Name
A = Aluminium
E = Stainless Steel
050 = Range 50 g
6 = 6 m shielded cable
Z = no connector