



Capacitive Accelerometer

BST 52K1

uniaxial

Features

- Anodized Aluminium Housing
- DC Response
- Voltage Output
- Calibrtation

Applications

- Train
- Automotive
- Truck and Busses
- Comfort

Description

The new model BST 52K1 is a uniaxial accelerometer based on variable capacitive technology with a good frequency response. The accelerometers are designed for relatively low amplitudes. Do to the mounting is very easy with glue. The sensor has 2m very high rugged and flexible cable this makes it easy to connect the sensor on data acquisition systems. It operates between 8 and 30 VDC unregulated.

As an option, we supply the sensor with connector, Dallas ID or TEDS module. A calibration for the sensor is obligatory.

Specifications

Range from 2 g to 200 g
Supply voltage 8 to 30 VDC unregulated

Power Consumption max. 7 mA

Zero measurement output $+/-80 \text{ mV typ in Differential Mode } (\geq 10 \text{ g})$

+/- 200 mV typ in Differential Mode (2g + 5g) 2500 mV DC +/- 150 mV in Single Ended Mode

Sensitivity 20 mV/g up to 4000 mV/g

Frequency 5% typ 0 Hz to 1000 Hz

Shock limit 5000 g
Operation Temperature -20° to 80° C
Weight 3 grams

Dimensions 12,0 x 12,0 x 12.0 mm (l x w x h)

Case material anodized Aluminium

Mounting Glue

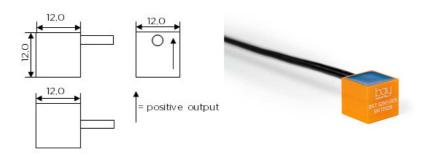




Individual Data

Range g	2	5	10	25	50	100	200
Frequency Hz	0-90	0-90	0-500	0-800	0-1000	0-1000	0-1000
Sensitivity mV/g	2000	800	400	160	80	40	20

Dimensions



Cable Code Differential

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

Cable Code Single ended

Red = Excitation + Black = Excitation - Green = Signal

Order Information BST 52K1-050-2Z

52K1 = Model Name 050 = Range 50 g 2 = 2 m shielded cable Z = no connector