

## Capacitive Accelerometer

### BST 51K3

#### uniaxial

#### Features

- Anodized Aluminium Housing
- DC Response
- Voltage Output
- Low Cost

#### Applications

- Train
- Automotive
- Truck and Busses
- Comfort

#### Description

The new model BST 51K3 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. A calibration for the sensor is obligatory.

#### Specifications

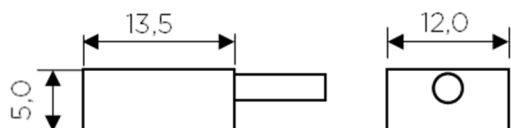
|                         |  |
|-------------------------|--|
| Range                   | from 1.5 g to 15 g                         |
| Supply voltage          | 8 to 30 VDC unregulated                    |
| Power Consumption       | max. 3 mA                                  |
| Zero measurement output | 2500 mV DC +/- 200 mV in Single Ended Mode |
| Sensitivity             | 100 mV/g up to 1000 mV/g                   |
| Frequency 3 dB typ      | 0 Hz to 250 Hz                             |
| Shock limit             | 2000 g                                     |
| Operation Temperature   | -20° to 80° C                              |
| Weight                  | 3 grams                                    |
| Dimensions              | 13,5 x 12,0 x 5.0 mm (l x w x h)           |
| Case material           | anodized Aluminium                         |
| Mounting                | Glue                                       |



#### Individual Data

|                  |       |       |       |
|------------------|-------|-------|-------|
| Range g          | 1,5   | 5     | 15    |
| Frequency Hz     | 0-120 | 0-250 | 0-250 |
| Sensitivity mV/g | 1000  | 300   | 100   |

#### Dimensions



← = positive output



#### Cable Code

Red = Excitation +

Black = Excitation –

Green = Signal

#### Order Information

##### **BST 51K3-15-2Z**

51K3 = Model Name

15 = Range 15 g

2 = 2 m shielded cable

Z = no connector