Capacitive Accelerometer

BST 51K3 Uniaxial

Features

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

Application

- 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.

Dimensions

- 13.5
- 12.0
- 5.0

= positive output
Specifications

Range from 1.5 g to 15 g
Sensitivity 100 mV/g up to 1000 mV/g
Supply voltage 8 to 30 VDC unregulated
Zero measurement output 2500 mV DC +/- 200 mV in Single Ended Mode
Frequency 3 dB typ 0 Hz to 250 Hz
Shock limit 2000 g
Operation Temperature -20° to 80° C
Dimensions 13.5 x 12.0 x 5.0 mm (l x w x h)
Mounting Glue
Weight 3 gram
Case material anodized Aluminium
Mounting Glue

Individual Data

<table>
<thead>
<tr>
<th>Range g</th>
<th>1.5</th>
<th>5</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Hz</td>
<td>0-120</td>
<td>0-250</td>
<td>0-250</td>
</tr>
<tr>
<td>Sensitivity mV/g</td>
<td>1000</td>
<td>300</td>
<td>100</td>
</tr>
</tbody>
</table>

Cable Code

Red = Excitation +  Black = Excitation –  Green = Signal

Order information

BST 5IK3-15-2Z
5IK3 = Model Name
15 = Range 15 g
2 = 2 m shielded cable
Z = no connector