Piezo resistive Accelerometer

BST 64K2 Triaxial

Features
- Anodized Aluminium Housing
- DC Response
- Voltage Output
- 5-, 8- and 12 wire system

Description
The new model BST 64K2 is a triaxial accelerometer based on variable capacitive technology with a very good Signal-to-Noise Ratio. 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, making 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
Supply voltage 8 to 30 VDC unregulated
Power Consumption max. 3 mA per axe
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
Sensitivity 10 mV/g up to 2000 mV/g
Frequency 5% typ 0 Hz to 1000 Hz
Shock limit 5000 g
Operation Temperature -25° to 100° C
Protection IP67
Weight 20 grams
Dimensions 23.6 x 16.0 x 18.0 mm (l x w x h)
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**

- **5 wire**
  - red = Excitation +
  - black = Excitation -
  - white = signal x
  - yellow = signal y
  - green = signal z

- **8 wire**
  - red = Excitation +
  - black = Excitation -
  - **x-axis**
    - green / violet = Signal +
    - white / violet = Signal -
  - **y-axis**
    - green / grey = Signal +
    - white / grey = Signal -
  - **z-axis**
    - green = Signal +
    - white = Signal -

- **12 wire**
  - **x-axis**
    - red / violet = Excitation +
    - black / violet = Excitation -
  - **y-axis**
    - green / grey = Signal +
    - white / grey = Signal -
  - **z-axis**
    - red = Excitation +
    - black = Excitation -

**Order information**

BST 64K2A-050-6Z
64K2 = Model Name
A = Aluminium
E = Stainless Steel
050 = Range 50 g
6 = 6 m shielded cable
Z = no connector