

Capacitive Accelerometer

BST 56K3

Uniaxial

Features

- Aluminium Housing
- Option: Housing with connector
- DC Response
- Voltage Output
- Calibration

Application

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

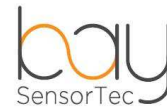
Description

The new model BST 55K1 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 low noise signal it has a very high resolution. The sensor has 2 m 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. The sensor a connector in the housing. This sensor is mounting with a mounting stud M4 and fix the with a hexagon 17mm.

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

Specifications

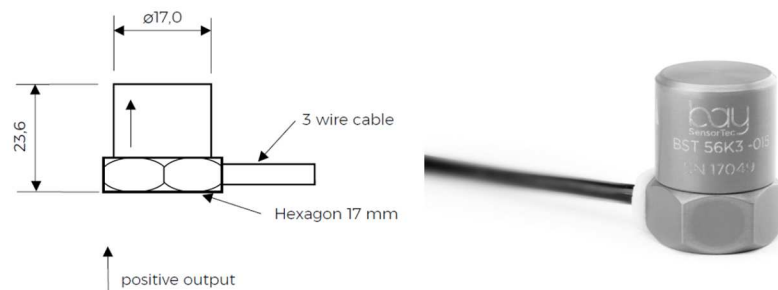
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|-------------------------|--|
| Range | rom 1.5 g to 15 g |
| Supply voltage | 8 to 30 VDC unregulated |
| Power Consumption | max. 3 mA |
| Zero measurement output | 2500 mV DC +/- 150 mV in Single Ended Mode |
| Sensitivity | 100 mV/g up to 1000 mV/g |
| Frequency 5% typ | 0 Hz to 1000 Hz |
| Shock limit | 3000 g |
| Operation Temperature | -20° to 100° C |
| Weight | 16 grams |
| Dimensions | SW 17 mm, 23.6 mm high |
| Case material | Aluminium, anodized |
| Mounting | M4 mounting stud |



Individual Data

| | | | | |
|---------------------|------|-------|-------|--------|
| Range | 1.5 | 5 | 15 | (g) |
| Frequency | 0-90 | 0-250 | 0-250 | (Hz) |
| Sensitivity (Diff.) | 1000 | 300 | 100 | (mV/g) |

Dimensions



Cable Code Single Ended (3-wire)

Red = Excitation + Green = Signal
Black = Excitation -

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Order Information

BST 56K3-05-2Z

56K3 = Model Name
05 = Range 5 g
2 = 2 m shielded cable
Z = no connector