Capacitive Accelerometer

BST 56K3 Uniaxial

Features

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

Application

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

Description

The new model BST 56K3 is a uniaxial accelerometer based on variable capacitive technology with a good frequency response. The accelerometers are designed for relatively low amplitudes. 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. 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.

Dimensions

![Dimensions Diagram](image)
Specifications

Range from 15 g to 15 g
Sensitivity 100 mV/g up to 1000 mV/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
Frequency 5% typ 0 Hz to 250 Hz
Shock limit 3000 g
Operation Temperature -20° to 100° C
Dimensions SW 17 mm, 23,6 mm high
Weight 14 grams
Case material anodized Aluminium
Mounting M4 mounting stud

Individual Data

Range g
0.5 5 15
Frequency Hz
0-90 0-250 0-250
Sensitivity mV/g
1000 300 100

Cable Code Single-Ended (3-wire)
Red = Excitation + Black = Excitation – Green = Signal

Order information

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