

Capacitive Accelerometer

BST 51K3 uniaxial

Features

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

Applications

- Train
- Automotive
- Truck and Busses
- Comfort

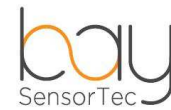
Description

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

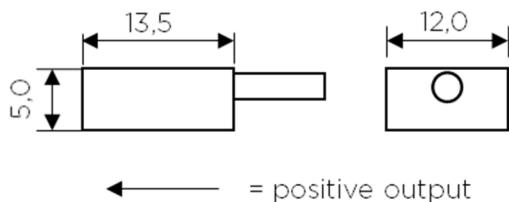
Range	from 1.5 g to 15 g
Supply voltage	8 to 30 VDC unregulated
Power Consumption	max. 3 mA
Zero measurement output	2500 mV DC +/- 200 mV in Single Ended Mode
Sensitivity	100 mV/g up to 1000 mV/g
Frequency 3 dB typ	0 Hz to 250 Hz
Shock limit	2000 g
Operation Temperature	-20° to 80° C
Weight	3 grams
Dimensions	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



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