bay SensorTec

Capacitive Accelerometer

BST 54K2
uniaxial

Features

- Anodized Aluminium Housing
- Option: Stainless Steel
- DC Response
- Voltage Output
- Calibrtation

Applications

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

Description

The new model BST 54K2 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 with two screws. The sensor has 6m 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 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.

Specifications

Range	from 1 g to 200 g
Supply voltage	8 to 30 VDC unregulated
Power Consumption	max. 3 mA
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	-20° to 100° C
Weight	20 grams
Dimensions	25,1 x 20,3 x 8.0 mm (l x w x h)
Case material	anodized Aluminium Option: Stainless Steel

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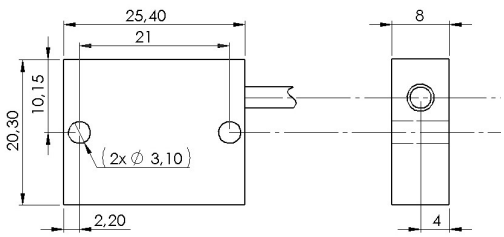
Individual Data

Range g	1	2	5	10	30	50	100	200
Frequency +/- 5% typ	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 Differential
Red = Excitation + Green = Signal +
Black = Excitation – White = Signal –

Cable Code Single ended
Red = Excitation + Black = Excitation – Green = Signal

Order Information

BST 54K2A-050-6Z
54K2 = Model Name
A = Aluminium
S = Stainless Steel
050 = Range 50g
6 = 6m shielded cable
Z = no connector

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