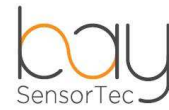


Capacitive Accelerometer



BST 54K2-N

uniaxial

Features

- Anodized Aluminium Housing
- High frequency response
- DC Response
- Excellent Stability
- High Voltage Output
- Calibration

Application

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

Description

The new model BST 54K2-N is a uniaxial accelerometer based on variable capacitive technology with a frequency from DC (0Hz). The accelerometers are designed for relatively low amplitudes. Do to the mounting with two screws. Next to the high frequency response has the sensor an excellent temperature stability over the operation temperature range. It has 6m very high rugged and flexible cable this makes it easy to connect the sensor on data acquisition systems. It operates between 7 and 30 VDC unregulated. The housing is available in Aluminium and Stainless Steel.

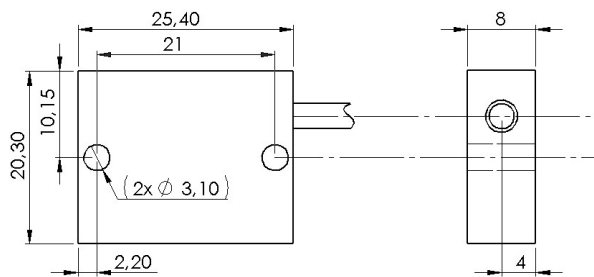
As an option, we supply the sensor with connector, Dallas ID or TEDS module. A calibration for the sensor is obligatory.

Specifications

Range	from 2 g to 200 g
Supply voltage	7 to 30 VDC unregulated
Power Consumption	max. 3 mA
Zero measurement output	+/- 25 mV typ in Differential
Sensitivity	13,5 mV/g up to 1350 mV/g
Frequency 5% typ	0 Hz to 2000 Hz (dependent of the range)
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

Individual Data

Range g	2	5	10	30	50	100	200
Frequency +/- 5% typ	500	750	1000	1500	1500	2000	2000
Sensitivity mV/g	1350	540	270	90	54	27	13



Cable Code

Red = Excitation +
Black = Excitation -

Green = Signal +
White = Signal -

Order Information

BST 54K2A(N)-050-6Z

54K2 = Model Name

A = Aluminium

S = Stainless Steel

050 = Range 50g

6 = 6m shielded cable

Z = no connector