Contact
+49 89 189 41 49-11
info@bay-sensortec.com

Capacitive Accelerometer

BST 55K1 Uniaxial

Features

- Fully Temperature Compensated
- Aluminium Housing
- Option: Housing with connector
- DC Response
- Voltage Output
- Calibrtation

Application

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

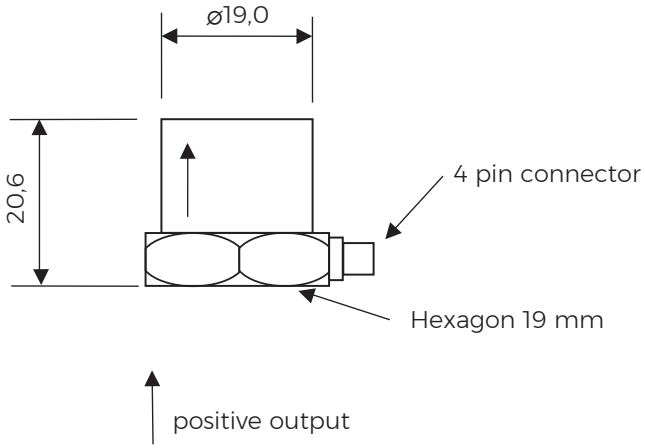
Description

The new model BST 55K1 is a uniaxial accelerometer based on varrable capacitive technology with a good frequency respon-se. The accelerometers are designed for relatively low ampli-tudes. Do to the low noise Signal it has a very high res olution. The sensor has 2 m very high rugged and flexible cable th is makes it easy to connect the sensor on data acquisit ion systems. It operates between 8 and 30 VDC unregulated The sensor a connector in the housing. This sensor is mounting w ith a mounting stud M5 and fix the with a hexagon 19mm

As an option, we supply t he sensor w ith connect or, Dall as ID or TEDS module.

A calibration for the sensor is obligat ory .

Dimensions



Specifications

Range	from 2 g to 200 g
Sensitivity	10 mV/g up to 2000 mV/g
Supply voltage	8 to 30 VDC unregulated
Power Consumption	max. 10 mA
Zero measurement output	+/ - 80 mV typ in Differential Mode (≥ 10 g) +/ - 150 mV typ in Differential Mode (2 and 5 g) 2500 mV DC +/- 150 mV in Single Ended Mode
Frequency 5% typ	0 Hz to 1000 Hz
Shock limit	5000 g
Operation Temperature	-20° to 100° C
Dimensions	SW 19 mm, 20,6 mm high
Weight	16 grams
Case material	Aluminium, anodized
Mounting	M5 mounting stud

Individual Data

Range g	2	5	10	25	50	100	200
Frequency Hz	0-90	0-90	0-250	0-400	0-650	0-700	0-850
Sensitivity mV/g	2000	800	400	160	80	40	20
Noise µg/√Hz	7	12	18	25	50	100	200

Cable Code Differential (4-wire)

Red = Excitation +	Green = Signal +
Black = Excitation –	White = Signal –

Cable Code Single-Ended (3-wire)

Red = Excitation + Black = Excitation – Green = Signal

Order information

BST 55K1A-050-2Z
55K1 = Model Name
A = Aluminium
E = Stainless Steel
050 = Range 50 g
2 = 2 m shielded cable
Z = no connector

Bay SensorTec GmbH | Erfurter Straße 31 | 85386 Eching | T +49 89 189 41 49-11 | F +49 89 189 41 49-29 | M +49 151 200 257 20
info@bay-sensortec.com | www.bay-sensortec.com