



Capacitive Accelerometer

BST 64K2

triaxial

Features

- Anodized Aluminium Housing
- Option: Stainless Steel
- IP 67
- DC Response
- Voltage Output
- 5-, 8- and 12 wire system

Applications

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

Description

The new model BST 64K2 is a triaxial accelerometer based on variable capacitive technology with a very good Signal-to-Noise Ratio. 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 has IP67 protection and 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.

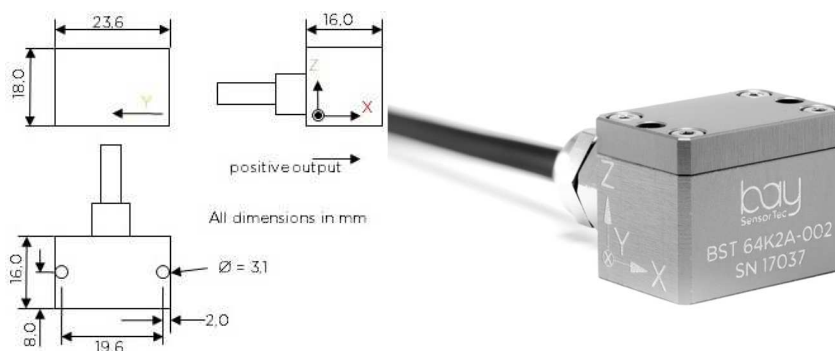
Specifications

Range	1 g to 200 g
Supply voltage	8 to 30 VDC unregulated
Power Consumption	max. 3 mA per axe
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	-25° to 100° C
Protection	IP67
Weight	20 grams
Dimensions	23,6 x 16,0 x 18.0 mm (l x w x h)
Case material	anodized Aluminium Option: Stainless Steel

Individual Data

Range g	1	2	5	10	30	50	100	200
Frequency Hz	0-60	0-90	0-90	0-500	0-800	0-1000	0-1000	0-1000
Sensitivity mV/g	2000	1000	400	200	67	40	20	10

Dimensions



Cable Code

5 wire red = Excitation + black = Excitation –
white = signal x yellow = signal y green = signal z

8 wire red = Excitation + black = Excitation –

x-axis	y-axis	z-axis
green/violet = Signal +	green/grey = Signal +	green = Signal +
white/violet = Signal –	white/grey = Signal –	white = Signal –

12 wire **x-axis**

red/violet = Excitation +	green/violet = Signal +
black/violet = Excitation –	white/violet = Signal –

y-axis

red/grey = Excitation +	green/grey = Signal +
black/violet = Excitation –	white/grey = Signal –

z-axis

red = Excitation +	green = Signal +
black = Excitation –	white = Signal –

Order Information

BST 64K2A-050-6Z
64K2 = Model Name
A = Aluminium
S = Stainless Steel
050 = Range 50g
6 = 6m shielded cable
Z = no connector