



Capacitive Accelerometer

BST 64K1

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

Description

The new model BST 64K1 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 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 8 to 30 VDC unregulated
Power Consumption max. 8 mA per axe

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 20 mV/g up to 2000 mV/g

Sensitivity 20 mV/g up to 20 Frequency 5% typ 0 Hz to 850 Hz

Shock limit 2000 g (2 g and 5 g); 4000 g (>10 g)

Operation Temperature -25° to 100° C
Weight 20 grams

Dimensions 23,6 x 16,0 x 18.0 mm (l x w x h)

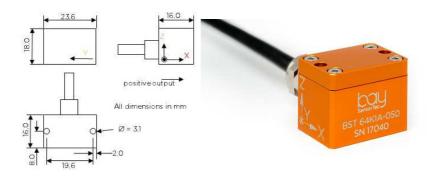
Case material anodized Aluminium Option: Stainless Steel





Individual Data							
Range g	2	5	10	25	50	100	200
Frequency	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

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 64K1A-050-6Z

64K1 = Model Name A = Aluminium S = Stainless Steel 050 = Range 50g 6 = 6m shielded cable Z = no connector