

## Capacitive Accelerometer BST 62KA420

triaxial

### Features

- Stainless Steel Housing
- IP 68
- DC Response (0Hz)
- 4 to 20mA Output
- Very Low Noise
- Calibration

### Application

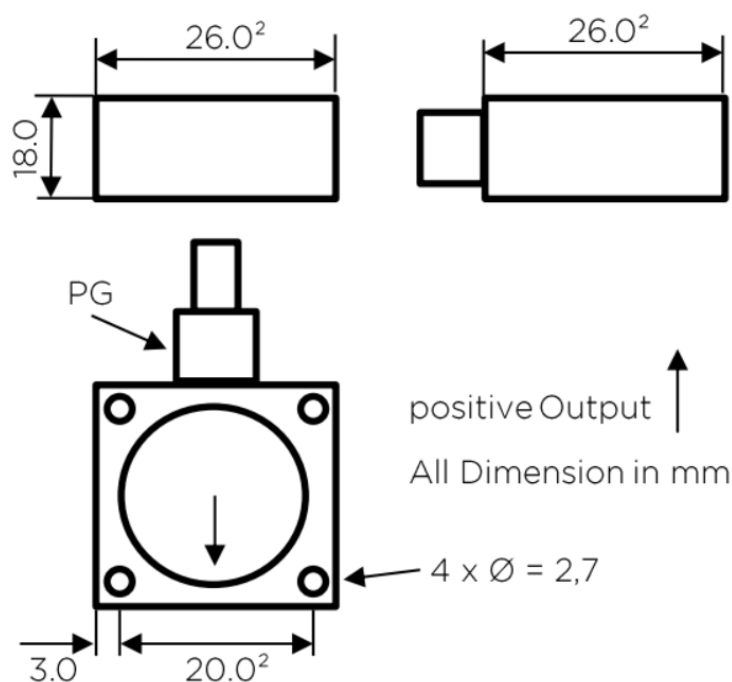
- Wind Energy
- Structural Analyses
- Bridge Monitoring
- Civil Engineering
- Rugged Applications



### Description

The new model **BST 62KA420** is a uniaxial accelerometer based on damped variable capacitive technology with a very high Signal-to-Noise Ratio. The accelerometers are designed for relatively low amplitudes and high resolution. Due to the 4 screws the sensor is easy to mount. The sensor has 6m very high rugged and flexible cable this makes it possible to connect the sensor on data acquisition systems. It operates between 15 and 24 VDC unregulated. The housing is very rugged and has an IP 68 Grade due to the Stainless Steel. As an option, we supply the sensor with connector, Dallas ID or TEDS module. A calibration for the sensor is obligatory.

### Dimensions



**Specifications** (All data are typical at 23°C and 18Vdc supply)

Range	(g)	2	5	10	25	50	100
Frequency	(Hz)	0-250	0-300	0-450	0-1000	0-1500	0-2000
Sensitivity	(mA/g)	4	1.6	0.8	0.32	0,16	0,08
Noise	( $\mu\text{g} / \sqrt{\text{Hz}}$ )	3	6	12	25	50	100
Shock limit	(g)	4000	4000	6000	6000	6000	6000

**Electrical Performances**

Supply voltage	15 to 24 VDC, unregulated
Power Consumption	max. 20 mA per axe
Zero measurement output	12 mA
Signal Span	4 to 20 mA
Isolation	Isolated from Housing
Non-Linearity	< 1%
Transverse sensitivity	<2% typ. 3% max.

**Environmental Performances**

Thermal Shift Zero	< $\pm 0.2$ % FSO (-25° to 80° C)
Thermal Shift Span	< $\pm 0.2$ % FSO (-25° to 80° C)
Operation Temperature	-40°C to 80° C
Storage Temperature	-40°C to 80°C
Protection Class	IP-68

**Housing Material**

Dimensions	Stainless Steel, welded
Weight (Housing)	26,0 x 26,0 x 18.0 mm (l x w x h)
Mounting	36 grams, without cable
	4 holes for screws M2.5

**Cable**

Cable Weight	integrated 3-wire shielded
Cable Length	16 g per meter, wire cross-section 0,14mm <sup>2</sup>
Cable Material	6 m, Ø 3,3 mm?
	PUR-Cable

**Calibration**

at 18Vdc and 23°C

**Cable Code Single ended**

green = Excitation + white = Signal brown = Excitation -

**Order Information**

BST 62KA420-025-3Z  
 62KA420 = Model Name  
 025 = Range 25g  
 3 = m shielded cable  
 Z = no connector

**Options**

Additional Cable Length  
 Customer Connector  
 TEDS Modul