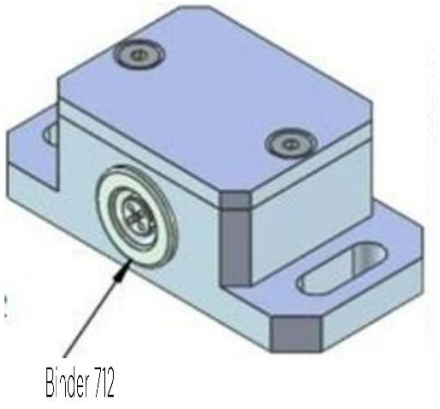
Preliminary

BST RAIL
BST RAIL 42

Features

- Aluminium Housing, Anodized
- Option: Stainless Steel Housing
- DC Response (0Hz) to 150 Hz
- Very Low Noise
- High Voltage Output
- Calibration



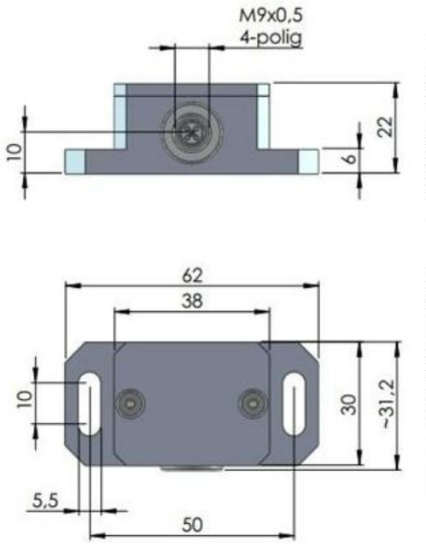
Application

- Train
- Comfort
- Break Tests

Description

The new model **BST RAIL 42** is a uniaxial accelerometer based on variable capacitive technology with a very good Signal-to-Noise Ratio. The accelerometers are designed for very low amplitudes. Due to the mounting with two screws. The sensor has a very high rugged and flexible connector and cable this makes it easy to connect the sensor on data acquisition systems. It operates with 15 to 30 Vdc unregulated. The housing is available in Aluminium and Optional Stainless Steel.

Dimensions



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Specifications	(All data at 24°C and 15 Vdc Supply)
Range	+/- 0.5 g (5 m/s²)
Supply voltage	15 bis 30 VDC, unregulated
Power Consumption	max. 25 mA
Zero measurement output	0 +/- 100 mV type
Frequency Response	0 Hz (DC) to 150 Hz
Sensitivity	1.000 mV/ m/s² (Differential Mode)
Non-Linearity	< 0.5 %
Isolation	the sensing element is isolated from housing
Shock limit	500 g
Operation Temperature	-50°C to 80° C
Storage Temperature	-55°C to 100°C
Dimensions	62.0 (38.0) x 31.2 x 22.0 mm (l x w x h)
Weight (Housing)	80 grams, without cable biaxial
Mounting	2 holes for screws M5
Case material	Aluminium, anodized
Cable	2.0 m shielded PUR-Cable, black
Weight (Cable)	12 g per meter, Ø 3,0 mm, AWG 30 uniaxial

Cable Code Differential Mode

Pin 1 = Red = Excitation +	Pin 3 = Green = Signal +
Pin 2 = Black = Excitation –	Pin 4 = White = Signal –

Order Information

BST RAIL 42-0.5-2Z
42 = Model Name
0.5 = Range 0.5 g (5 m/s²)
2 = 2 m shielded cable
Z = no connector

Options

Stainless Steel housing, welded, hermetical sealed
Current Output
Additional Cable Length
Customer Connector
TEDS- Modul

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