



# **Piezoresistive Accelerometer**

# Model BST 27C

triaxial

## Features

- Anodized Aluminium Housing
- DC Response
- Damping selectable
- High frequency response

#### Application

- Crash Tests
- Shock Tests

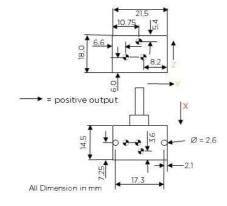
## Description

The new model BST 27C is a triaxial accelerometer based on piezo resistive technology. With a fouractive arm Wheatstone-Bridge (4 wire system) configuration and a selectable damping ratio helps to connect the sensor on all data acquisition systems. The light weight and small size of the sensor makes it easy to mount it on difficult places at the car for a crash test or flatter test application.

Do to the anodized aluminium housing the mounting is easy with a glue. The sensor has 6m very high rugged and flexible 4-wire per axe cable this makes it easy to place it on difficult places it is fixing with two bolts M2,5.

As an option, we supply the sensor with a Dallas ID and a Shunt resistor in the connector if it possible. A calibration for the sensor is obligatory.

#### Dimensions





DUETTO-Engineering D-81479 München www.duetto-engineering.com Fax: +49 89 14098323 info@duetto-engineering.de Tel. +49 89 41602080 Mobil: +491737850580

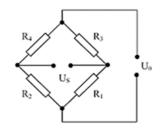




<b>Specifications</b> Range g Sensitivity typ.	1000 0,018 mV/V/g	2000 0,016 mV/V/g
Supply voltage Zero measurement output Thermal Shift Zero Thermal Shift Span Frequency	0 to 3500 Hz 5%	
Non-Linearity Transverse sensitivity Bridge Resistance Damping ratio Resonance Frequency Shock limit Operation Temperature Material Dimensions Weight Housing Weight Cable Cable	< 1% of FSO 2% typ (3% max.) 1500 to 2000 Ohm 0.7 typ > 20 kHz 8000 g -20° to 80° C Aluminium, anodized 21.5 x 14.5 x 18.0 mm 15 grams without cable 30 grams per meter 6m, 12wire, shielded PUR,	

Diagram

Cable Code



x-axis red / violet = Excitation + green / violet = Signal + black / violet = Excitation y-axis red/grey = Excitation +black / violet = Excitation z-axis Red = Excitation + Black = Excitation -

white / violet = Signal green / grey = Signal + white / grey = Signal -

Green = Signal + White = Signal -

Order information

BST 27C-1000-6Z 27C = model name 1000 = Range 1000g 6 = 6m Cable Z = no connector

DUETTO-Engineering D-81479 München

www.duetto-engineering.com Fax: +49 89 14098323

info@duetto-engineering.de Tel. +49 89 41602080 Mobil: +491737850580