Gyro Sensor
BST 83G3C triaxial

Features
• Very small housing
• Low power consumption
• Low noise
• Aluminium Housing
• 0 Hz (DC)

Application
• Crash-Test

Description
The Model BST 83G3C is a triaxial Angular-Rate-Sensor, based on MEMS Technology, its design is especially for Car-Safety-Tests with Differential Signal Output.

Do to the very small size make it easy to mount it on difficult places or on a little. The housing materiel is aluminium. The BST 83G3C is very shock resistant. The sensor has 6 m high rugged shielded PUR-cable which is useable for connector from Lemo or ODU with Dallas ID and Shunt.

Dimensions

All Dimension in mm
Specifications

Ranges (°/s) 900 1500 2700 5000 10000
Sensitivity typ. (mV/°/s) 2.2 1.35 0.73 0.4 0.2
Frequency (Hz) 100 100 100 150 150

Supply Voltage 7 to 28 VDC
Zero Output 0 +/- 150 mV
Current 6 mA max.
Signal Spann 2 000 mV DC
Linearity < 0.5 % FS typ.
Cross Axis Sensitivity 1 % typ. max. 3 %
Shock Resistance 2000 g
TC Zero 0.03 %/°/s FSO
TC Signal +/- 1 % typ. (+/- 3% max.)
Operation Temp. -20° to 70° C
Storage Temp. -25° to 100° C
Material Aluminium, anodized
Wight 23 gram without cable
Cable 3 x 4-wire AWG 30, PUR, Ø 4.4 mm
Wight 30 gram per meter
Dimension 23.4 x 16.0 x 18.0 mm (l x w x h)

Cable Code Single ended

**x-axis**
red / violet = Excitation +
black / violet = Excitation –
green / violet = Signal +
white / violet = Signal –

**y-axis**
red / grey = Excitation +
black / grey = Excitation –
green / grey = Signal +
white / grey = Signal –

**z-axis**
red = Excitation +
black = Excitation –
green = Signal +
white = Signal –

Order information

**BST 83G1C-2700-6Z**
83G1C = Model Name
2700 = Range 2700 °/s
6 = 6 m Cable
Z = no connector

Optional

Filter
ID-Modul
Connector