Gyro Sensor

BST 83G1C uniaxial

Features

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

Application

- Crash-Test

Description

The Model BST 83G1C is a uniaxial Angular-Rate-Sensor, based on MEMS Technology, its design is especially for Car-Safety-Tests with Differential Signal Output.

Due to the very small size make it easy to mount it on difficult places or on a little triaxial mounting block. The mounting block is prepared for three accelerometers. The BST 83G1C 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

- Positive Output = Center of Seismic Mass
- All dimensions 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 3 gram without cable
Cable 4-wire AWG 32, PUR, Ø 2.3 mm
Dimension 14.6 x 10.2 x 8.0 mm (l x w x h)

Cable Code Single ended
red = Excitation + green = Signal +
black = Excitation – white = Signal -

Order information

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

Optional

triaxial Mounting Block
Filter
ID-Modul
Connector