Gyro Sensor
BST 83G1M uniaxial

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

Application
- Automotive Testing
- Train
- Truck & Busses
- Tractors

Description
The Model BST 83G1M is a uniaxial Angular-Rate-Sensor, based on MEMS Technology, its design is many applications like Automotive, Truck and Train application. The sensor is temperature compensated from -25°C to 85°C and has an Amplified Signal Output.

Do 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 gyros. The BST 83G1M is very shock resistant. The sensor has 6 m high flexible and rugged shielded PUR-cable.

Dimensions

![Dimensions Diagram]
Specifications

Supply Voltage 5 to 28 VDC
Zero Output 1650 mV +/- 50 mV
Current 6 mA
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. -30° to 100° C
Storage Temp. -45° to 120° C
Wight 4 gram without cable
Cable 3-wire AWG 30, PUR, Ø 3.0 mm
Dimension 15.0 x 10.2 x 7.5 mm (l x w x h)

Individual Data

Ranges (°/s) 75 150 300 900
Sensitivity (mV/°/s) 13.5 6.7 3.3 1.2
Frequency (Hz) 100 100 100 100

Cable Code Single ended

red = Excitation + black = Excitation – green = Signal

Order information

BST 83G1M-300-6Z
83G1M = Model Name
300 = Range 300 °/S
6 = 6 m Cable
Z = no connector

Optional

Filter
ID-Modul
Connector
Mounting Block