

Gyro Sensor

BST 83G1M Uniaxial

FEATURES

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

APPLICATION

- Automotive Testing
- Train
- Truck & Busses
- Tractors

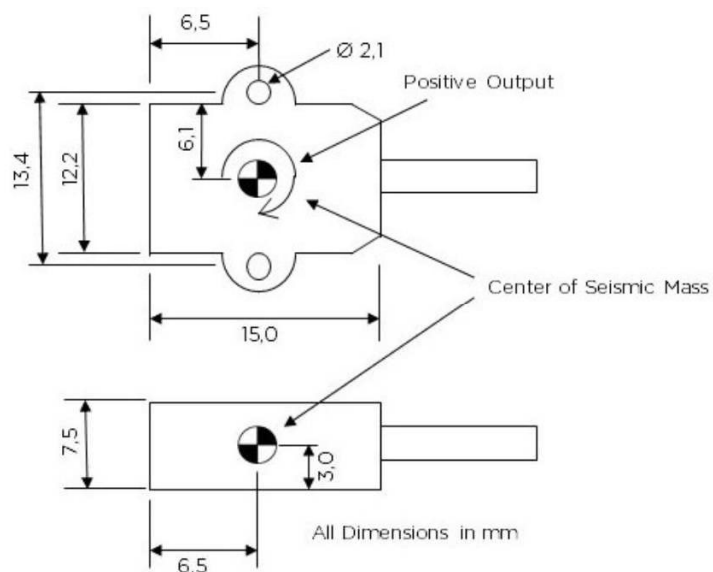


DESCRIPTION

The Model BST 83G1M is a uniaxial Angular-Rate-Sensor, based on MEMS Technology, its design is for 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.

The very small size makes 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



SPECIFICATION ACCELEROMETER

All data are typical at 23 °C AND 10 VDC SUPPLY.

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

ELECTRICAL PERFORMANCES

Supply voltage	5 to 28 VDC
Power Consumption	8 mA max.
Zero measurement output	1650 mV +/- 50 mV
Isolation	sensing element isolated from housing

ENVIRONMENTAL PERFORMANCES

Signal Spann	1,000 mVDC
Linearity	< 0,5 % FS typ.
Cross Axis Sensitivity	1 % typ. max. 3 %
Shock limit	2,000 g
TC Zero	0,03 %/°/s FSO
TC Signal	+/- 1 % typ. (+/- 3 % max.)
Operation Temperature	- 30 °C to + 100 °C
Storage Temperature	- 45 °C to + 120 °C
Protection Class	IP64
Housing Material	Aluminium, anodized
Dimensions	15.0 x 10.2 x 7.5 mm (l x w x h)
Weight Housing	4 grams without cable
Cable	integrated, 3-wire, shielded, AWG 30
Cable Length	6 m
Cable Shield	not connected to housing
Cable Material	PUR, black
Cable Weight	13 grams per meter, Ø 3.0 mm

CABLE CODE

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

Additional Cable Length
Connector
TEDS
Triaxial Mounting Block
Shunt Resistor