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Home / Products



5V TL720D MEMS Gyroscope Sensor 100Hz

Product Details

Place Of Origin: Guangdong, China

Brand Name: RION

Certification: CE, ISO

Model Number: TL720D

Payment & Shipping Terms

Minimum Order Quantity: 1

Price: \$60.00/Pieces >=1 Pieces

Packaging Details: Carton

Delivery Time: 7 Days For Samples

Payment Terms: T/T, PAYPAL

Supply Ability: 5000 Piece/Pieces Per Month

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Specifications Description

Specifications

Highlight: 5V MEMS Gyroscope Sensor, TL720D MEMS Gyroscope Sensor, 100Hz MEMS Gyro Sensor

Usage:	Position Sensor	Theory:	Capacitance Sensor
Output:	Digital Sensor	Power Supply:	DC5V
Output Signal:	RS232/RS485	Measuring Range:	Azimuth Angle (± 180)
Current (mA):	40(5V)	Anti-vibration:	10grms, 10~1000Hz
Azimuth Accuracy (%/min):	<0.2	Output Rate:	5Hz, 15Hz, 25Hz, 50Hz, 100Hz Can Set
Weight:	152g(matched Standard Cable)	Working Temp.(°C):	-40 ~ +80
Vibration(g):	5g~10g	Port:	SHENZHEN PORT OR EXPRESS DELIVERY

Description

5V TL720D MEMS Gyroscope Sensor 100Hz

High Performance Gyro for Robotic Vehicle, Directional Gyro for Automatic Guided Vehicle, Navigational Gyro
General Description

TL720D is RION company newly developed Small volume angular gyro sensor based on latest MEMS inertial measurement platform , by means of the dynamic attitude algorithm for the angular velocity of gyroscope , it can simultaneously output carrier's azimuth angle .The product internal integrated RION's Patent Inertial navigation algorithm, through the model of attitude angle data fusion , can solve the gyro short time drift problem as much as possible .

This product is specially used for robot car, AVG vehicle azimuth orientation, attitude control and other related applications of the UAV, instead of the traditional robot vehicle magnetic bar guide shortcomings, no need at the site layout of magnetic stripe, is the necessary navigation components for the next generation of robot vehicle automatic tracing and driving.

Main Features

- Azimuth angle output
- Strong vibration resistance
- Light weight
- Long life, strong stability
- Cost-effective
- All solid state
- Compact & light design
- RS232/RS485 output optional
- DC5V power supply

Title goes here.

- AGV truck
- Platform stability
- Auto safety system
- Car Navigation
- UAV
- Turck-mounted satellite antenna equipment
- 3D virtual reality
- Industrial control
- Robot

Detailed Data

TL720D

Mesuring range	Azimuth Angle (± 180)
Acquisition bandwidth (Hz)	>100
Resolution($^{\circ}$)	0.02
Azimuth accuracy	<0.2
Nonlinear	0.3% of FS
Max angle rate ($^{\circ}/s$)	≥ 150
Accelerometer range	± 4
Acceleroemter	0.005
Acceleroemter	10
Starting time(s)	5(Static)
Input Voltage(V)	5V
Current (mA)	40(5V)
Working Temp.($^{\circ}$ C)	-40 ~ +80
Storage Temp($^{\circ}$ C)	-40 ~ +85
Vibration(g)	5g~10g

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MTBF	≥ 50000 hours /times
Insulation resistance	≥ 100 Megohm
Protecting	IP67
Weight	152g(matched standard cable)

Ordering information

TL720D-232	RS232 output mode(RION protocol)
TL720D-485	RS485 output mode (RION protocol)
TL720D-232-MB	RS232 output mode (MODBUS-RTU protocol)
TL720D-485-MB	RS485 output mode (MODBUS-RTU protocol)



TL720D Measuring direction

Ordering information:

TL720D -232	RS232 output mode(RION protocol)
TL720D -485	RS485 output mode (RION protocol)
TL720D -232-MB	RS232 output mode (MODBUS-RTU protocol)
TL720D -485-MB	RS485 output mode (MODBUS-RTU protocol)

Dimension



Notice.

1.The angular gyro sensor should be mounted in the center position of the measured object , in order to reduce the influence of linear acceleration on the measurement accuracy. See below diagram as ref.

2. The installation of the instrument should be kept parallel to the surface of the measured object, and reduce the influence of the dynamic and acceleration on the angle meter. Incorrect installation will lead to measurement errors, with particular attention to "surface" and "line"

1)The mounting surface of the instrument fixing must be close, smooth and stable with the measured surface. If the mounting surface is not smooth, the angle error of angle measurement can be caused easily. See figure Pic.AB

2)The axis of the instrument must be parallel to the axis of measurement, and the two axis should not be included angle as far as possible , see figure Pic.CD



3. Do not shake violently during the use of the product, avoid violent vibration, away from the vibration source (if you can not avoid please install the shock absorber), so as not to affect the product measurement accuracy;

4. Try to avoid a sharp acceleration, arrest, sharp turn angular velocity greater than 300 DEG /s movement during use, so as not to affect the measurement precision of products.

Our Company



Our services:

1. OEM Manufacturing welcome: Product, Package...
2. Sample order
3. We will reply you for your inquiry in 24 hours.
4. after sending, we will track the products for you once every two days, until you get the products. When you got the goods, test them, and give me a feedback.If you have any questions about the problem, contact with us, we will offer the solve way for you.
5. We respect every customer as our friend and we sincerely do business and make friends with them, no matter where they come from.

Our Certifications



Our Factory



Packing & Delivery



Rion

8:35 AM

Good day, what product are you looking for?

FAQ

Type a message

Q1. What is your terms of packing?

A: Generally, we pack our goods in brown cartons. If you have legally registered patent, we can pack the goods in your branded boxes after getting your authorization letters.

Q2. What is your terms of payment?

A: T/T 40% as deposit, and 60% before delivery. We'll show you the photos of the products and packages before you pay the balance.

Q3. What is your terms of delivery?

A: EXW, FOB, CFR, CIF, DDU.

Q4. How about your delivery time?

A: Generally, it will take 3 to 10 days after receiving your advance payment. The specific delivery time depends on the items and the quantity and stock of your order.

Q5. Can you produce according to the samples?

A: Yes, we can produce by your samples or technical drawings. We can build the molds and fixtures.

Q6. What is your sample policy?

A: We can supply the sample if we have ready parts in stock, but the customers have to pay the sample cost and the courier cost.

Q7. Do you test all your goods before delivery?

A: Yes, we have 100% test before delivery

Q8: How do you make our business long-term and good relationship?

A:1. We keep good quality and competitive price to ensure our customers benefit ;

Tags:

TL725D MEMS Gyroscope Sensor

DC AGV Gyro Sensor

Anti vibration MEMS Gyroscope Sensor

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