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TL740D High Reliability CE Certified 3-Axis MEMS Gyroscope Sensor with Azimuth Angle Output for Industrial Applications

Product Details

Place Of Origin: Guangdong, China

Brand Name: RION

Certification: CE

Model Number: TL740D-232-MD

Payment & Shipping Terms

Minimum Order Quantity: 1

Price: \$235.00/Pieces

Packaging Details: 1pcs Gyro Sensor In Each Inner Box , 50pcs /Ctn

Delivery Time: 7 Days For Samples

Payment Terms: T/T,PAYPAL

Supply Ability: 3000/Month

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Specifications Description

Specifications

Highlight: CAN output MEMS Gyroscope Sensor, high reliable MEMS Gyroscope Sensor, CE 3 axis gyro sensor

Gyro Sensor Mesuring Range:	Azimuth Angle (± 180)	Acquisition Bandwidth:	>100Hz
Resolution:	0.01°	Azimuth Accuracy:	<0.1°/min
Nonlinear:	0.1% Of FS	Max Angle Rate:	$\geq 300^{\circ}/s$
Starting Time:	30s (Static)	Input Voltage:	DC9-36V
Working Temp.:	-40 ~ +85°C	Storage Temp.:	-40 ~ +85°C

Description

[TL740D High Reliability CE Certified 3-Axis MEMS Gyroscope Sensor with Azimuth Angle Output for Industrial Applications](#)

TL740D Industrial 3-Axis MEMS Angular Rate Sensor, High Reliability, CE Certified

TL740D is a newly developed 3-axis MEMS angular rate sensor designed for horizontal relative heading measurement. It adopts a high-performance MEMS inertial platform and dynamic attitude algorithm to output real-time relative heading angles. The built-in inertial navigation and attitude fusion algorithms effectively minimize short-term gyro drift, ensuring stable and accurate heading data. This sensor is ideal for robot cars, AGVs, and UAVs, replacing traditional magnetic stripe navigation. No magnetic guide is required, making it an essential component for next-generation autonomous vehicles and robotic navigation systems.

KEY 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
- DC9~36V power supply

MAIN FEATURES

- Relative heading angle output
- High vibration resistance and long-term stability
- Wide voltage range: **DC 9 -36V**
- Compact, lightweight, and all-solid-state design
- Multiple interfaces: **RS232 / RS485 / TTL** optional
- Cost-effective, maintenance-free

APPLICATION FIELDS

- AGV and robot navigation
- Vehicle positioning and control
- Platform stabilization
- 3D virtual reality systems
- Automotive safety systems
- Industrial automation and control

SPECIFICATIONS

TL740D	Parameters
Measuring range	relative heading Angle ($\pm 180^\circ$)
Acquisition bandwidth	>100Hz
Resolution	0.01°
Positional accuracy	<2mm/m (converted from angle accuracy)
Nonlinear	0.1% of FS
Gyroscope zero bias stability (10s smooth)	10°/h
Max angle rate	150°/s
Acceleration range	±4g
Acceleration resolution	0.001g
Acceleration accuracy	5mg
Starting time	5s(Static)
Input Voltage	DC9V~36V
Current	60mA(12V)
Working Temp.	-40 ~ +85°C
Storage Temp.	-40 ~ +85°C
Vibration	5g~10g
Impact	200g pk,2ms,1/2sine
Working life	10 years
Output rate	5Hz / 15Hz / 25Hz / 50Hz / 100Hz Can set

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Anti-vibration	10grms / 10~1000Hz
Protecting	IP67
Weight	≤170g (including 1 meter cable)

**Tags:**

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DC AGV Gyro Sensor

Anti vibration MEMS Gyroscope Sensor

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