

Global Automotive Steering Angle Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Steering Angle Sensor market size is expected to reach \$ 587 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Steering Angle Sensor production reached approximately 5,274 k units, with an average global market price of around US\$ 61 per unit. Gross margin is about 44%. The cost is 34 usd per unit, the production is 6,500 k units. Automotive Steering Angle Sensor refers to a sensor used to detect the steering wheel position, steering angle, rotational direction, and turning speed in a vehicle. It is commonly integrated into steering columns, electric power steering (EPS) systems, and vehicle stability control systems. Steering angle sensors are essential for advanced driver assistance systems (ADAS), electronic stability control (ESC), lane keeping systems, and autonomous driving functions because they provide accurate steering position feedback and improve vehicle safety and control.

Automotive steering angle sensors will be increasingly used in electric vehicles, intelligent driving systems, and steer-by-wire systems. As electric vehicles and autonomous driving technologies continue to develop rapidly, the importance of steering angle sensors will continue to increase.

Non-contact sensing technologies will become the mainstream. Hall-effect, magnetoresistive, and inductive steering angle sensors are expected to gradually replace traditional potentiometer-based products to improve lifetime, reliability, and wear resistance.

High precision, multi-turn detection, and redundancy design will become important

development trends. Future products will place greater emphasis on angle accuracy, repeatability, multi-turn position recognition, and functional safety redundancy to meet the needs of autonomous driving and steer-by-wire systems.

Integration with EPS, ADAS, and autonomous driving systems will continue to strengthen. Future steering angle sensors will work more closely with electric power steering systems, vehicle stability control, lane keeping assistance, and automatic parking systems.

Digitalization and intelligent functions will continue to improve. More products will support CAN, LIN, SENT, SPI, and other digital interfaces, along with self-diagnostics, fault detection, and real-time monitoring capabilities.

The Chinese market is expected to grow faster than Europe, North America, and Japan. As China's electric vehicle, intelligent driving, and autonomous driving industries continue to grow rapidly, demand for automotive steering angle sensors will increase significantly, and local manufacturers will continue to improve their high-end product capabilities.

This report studies the global Automotive Steering Angle Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Steering Angle Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Steering Angle Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Steering Angle Sensor total production and demand, 2021-2032, (K Units)

Global Automotive Steering Angle Sensor total production value, 2021-2032, (USD Million)

Global Automotive Steering Angle Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Steering Angle Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Steering Angle Sensor domestic production, consumption, key domestic manufacturers and share

Global Automotive Steering Angle Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Steering Angle Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Steering Angle Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Steering Angle Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, Continental, HELLA, ZF, Sensata Technologies, TE Connectivity, Honeywell, Allegro MicroSystems, Melexis, ams OSRAM, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Steering Angle Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Steering Angle Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Steering Angle Sensor Market, Segmentation by Type:

Digital Sensors

Analog Sensors

Global Automotive Steering Angle Sensor Market, Segmentation by Precision:

High-Precision Type

Medium-Precision Type

Standard-Precision Type

Global Automotive Steering Angle Sensor Market, Segmentation by Turn:

Single-Turn Steering Angle Sensor

Multi-Turn Steering Angle Sensor

Global Automotive Steering Angle Sensor Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

Bosch

Continental

HELLA

ZF

Sensata Technologies

TE Connectivity

Honeywell

Allegro MicroSystems

Melexis

ams OSRAM

Panasonic

Nidec

MinebeaMitsumi

OMRON

Murata Manufacturing

TDK

Shanghai Baolong Automotive

Key Questions Answered:

1. How big is the global Automotive Steering Angle Sensor market?
2. What is the demand of the global Automotive Steering Angle Sensor market?
3. What is the year over year growth of the global Automotive Steering Angle Sensor

market?

4. What is the production and production value of the global Automotive Steering Angle Sensor market?
5. Who are the key producers in the global Automotive Steering Angle Sensor market?
6. What are the growth factors driving the market demand?

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