

## **Automotive Steering Sensors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-04-28 | 127 pages | Mordor Intelligence

### **AVAILABLE LICENSES:**

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

### **Report description:**

The Automotive Steering Sensors Market is expected to register a CAGR of 5.87% during the forecast period.

COVID-19 hurt almost all segments of the automotive industry, including the automotive steering sensors market. In addition, due to lockdowns and halts in production, the demand for automotive steering sensors plummeted. However, the automotive industry witnessed significant growth in terms of production in 2021, which is likely to increase the demand for steering sensors over the forecast period. With the situation returning to normalcy, the heavy commercial vehicle segment is growing, which will likely help the automotive steering sensor market grow during the forecast period.

The automotive industry's recent shift in attention to technical developments such as electrification and autonomous driving has raised the demand for steering sensors. At the same time, the manufacturers' preference for integrating position sensors into vehicles suggests that the market will continue to grow. Autonomous vehicles (especially level 4 and level 5 vehicles) that feature self-driving systems generally process huge amounts of data to give feedback to the steering system and drive smoothly, clear obstacles, and perform turning maneuvers according to traffic signs. Due to this, it is expected that a larger number of sensors need to be incorporated into these types of vehicles, which is expected to drive the market for this segment.

There is growing consumer demand for new safety systems and technologies. Automotive manufacturers have been prompted to equip their vehicles with driver assistance systems, particularly steering assistance systems, as passenger safety concerns have grown. Such factors are driving the demand for steering sensors.

Furthermore, the adoption of stringent fuel efficiency standards by the government and international safety measures are seen as major drivers for the expansion and development of advanced steering systems. The presence of multiple steering sensors in

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

electric power steering (EPS) systems provides the driver with extra safety benefits.

Owing to the aforementioned factors, the automotive steering sensor market is expected to grow significantly during the forecast period.

## Automotive Steering Sensor Market Trends

### Torque Sensors Experience the Highest Demand

Torque sensors measure the steering torque applied by the driver. The vehicle's electronic control units receive the input from the torque sensor and the motor, or the pump applies the required torque back or assistance on the steering column.

The torque sensor is utilized in automobiles' electronic and hydraulic power steering systems. Nowadays, all cars come with either hydraulic power steering or electronic power steering. As a result, the torque and angle sensor market is expected to flourish in the forecast period due to an increase in global demand for power steering systems.

With growing advancements in technology, sensor products have also been consistently upgraded and improved in the automotive industry. To cater to the market, many OEMs and others are investing in research and development. For instance,

- In May 2022, Nexteer Automotive and Continental AG jointly expanded their two new software functions that provide backup safety layers for all variants of Electric Power Steering and Steer-by-Wire systems and across all driving automation (levels 1 - 5).
- In October 2021, Nexteer Automotive announced the addition of its new modular column-assist EPS system (mCEPS) to its electric power steering (EPS) portfolio, which is designed to fulfill the needs of a wide range of OEMs. Nexteer's high-performance torque and rotation angle sensors are custom-developed to deliver superior noise, vibration, and harshness (NVH) performance and a smooth and precise steering feel, allowing drivers to feel more connected to the road.
- In July 2021, UD Trucks Corp. announced that UD Active Steering, a groundbreaking technology that dramatically enhances steering precision and driver comfort, will be offered in Japan on heavy-duty flagship Quon models. An electric motor is installed above the hydraulic steering gear in UD Active Steering to give additional torque when needed. The electronic control unit (ECU) on the electric motor gets input from sensors all over the truck every 2,000 seconds, monitoring the driving environment and the driver's actions.

Such improved sensor products for torque sensors are expected to witness increasing adoption by automakers during the forecast period.

### Asia-Pacific Holds a Significant Share

The Asia-Pacific region is expected to become the major market for the manufacture of these systems, with India, Japan, and China moving toward becoming manufacturing hubs for automotive components and sourcing the same to countries such as the United States and Germany.

The automotive industry in Asia-Pacific has been very dynamic over the past few years, owing to the increasing per capita income of the middle-class population and cost advantages for original equipment manufacturers (OEMs). The region is known for producing compact and cost-effective cars and comprises some of the fastest-developing economies of the world, including China and India.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

China is dominating the Asia-Pacific automotive steering sensors market in the Asia-Pacific region. China is a significant vehicle market in the Asia-Pacific region. Furthermore, the country dominates the Asia-Pacific automotive sensors industry. This is due to increased acceptance of car safety measures as well as a rise in advanced technology for safety such as ESC, Advanced Driver Assistance Systems (ADAS), etc. In April 2022, the increased frequency of COVID incidences in China created challenges for market players and put negative pressure on the Chinese economy. During this time, the automobile industry and supply chain were pushed to the ultimate challenge. Furthermore, some of the major automakers shut down production and faced enormous logistical challenges, resulting in a collapse in delivery capacity.

The main factors influencing the growth of the Indian automotive steering sensors market include an increase in demand for motor vehicles across the country due to an increase in consumer disposable income and an increase in demand for fuel-efficient automobiles. Other factors that are expected to have a significant influence on the market over the forecast period include an increase in customer desire for easy driving and agility, the high cost of power steering systems, and drive-by-wire technology.

Companies involved in the supply and distribution of steering sensors are looking forward to widespread expansion in other potential markets. Several OEMs are collaborating with automakers to improve their goods. Sensor items have also been continually upgraded as technology has advanced. For instance,

- In January 2022, as a part of the consolidation of its operations in the Indian market, ZF acquired a majority stake in the Rane TRW Steering Systems joint venture with the Rane Group. The new joint venture will operate under the name of ZF Rane Automotive India and produce steering systems for commercial vehicles.

#### Automotive Steering Sensor Industry Overview

The automotive steering sensors market is dominated by several players, such as Robert Bosch GmbH, Continental AG, DENSO Corporation, HELLA GmbH & Co. KGaA, and NXP Semiconductor. The automotive steering sensors market in the region has undergone a lot of mergers and acquisitions, making the top-five players significant contributors to the steering sensors market.

- In January 2022, Bosch and the Volkswagen Group subsidiary Cariad are collaborating to achieve this objective and have agreed to form an extensive partnership. The companies want to make partially and highly automated driving suitable for volume production and thus available to the broad mass of consumers. For the vehicles sold under the Volkswagen Group brands, the alliance aims to make functions available that will allow drivers to temporarily take their hands off the steering wheel.
- In August 2021, Faurecia, a global automotive supplier headquartered in Auburn Hills, North America, and Hella KGaA Hueck & Co, a German-based company with a similar focus on automotive engineering innovation, came together under a strategic merger to become the seventh-largest automotive supplier across the world. This combination builds on Hella's energy management, sensors, and actuators and Faurecia's portfolio of hydrogen system solutions and hybrid systems.

#### Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

#### Table of Contents:

##### 1 INTRODUCTION

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

1.1 Study Assumptions

1.2 Scope of the Study

## 2 RESEARCH METHODOLOGY

## 3 EXECUTIVE SUMMARY

## 4 MARKET DYNAMICS

4.1 Market Drivers

4.2 Market Restraints

4.3 Porter's Five Forces Analysis

4.3.1 Threat of New Entrants

4.3.2 Bargaining Power of Buyers/Consumers

4.3.3 Bargaining Power of Suppliers

4.3.4 Threat of Substitute Products

4.3.5 Intensity of Competitive Rivalry

## 5 MARKET SEGMENTATION (Market Size by Value - USD million)

5.1 Sensor Type

5.1.1 Health Monitoring Systems

5.1.2 Torque Sensors

5.1.3 Intelligent Multi-functional Sensor Systems

5.1.4 Position Sensors/Angle Sensors

5.1.5 Other Sensor Types

5.2 Vehicle Type

5.2.1 Passenger Cars

5.2.2 Light Commercial Vehicles

5.2.3 Heavy Commercial Vehicles

5.3 Technology

5.3.1 Contacting

5.3.2 Magnetic

5.4 Geography

5.4.1 North America

5.4.1.1 United States

5.4.1.2 Canada

5.4.1.3 Mexico

5.4.1.4 Rest of North America

5.4.2 Europe

5.4.2.1 Germany

5.4.2.2 United Kingdom

5.4.2.3 France

5.4.2.4 Russia

5.4.2.5 Rest of Europe

5.4.3 Asia-Pacific

5.4.3.1 India

5.4.3.2 China

5.4.3.3 Japan

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 5.4.3.4 South Korea
- 5.4.3.5 Rest of Asia-Pacific
- 5.4.4 South America
  - 5.4.4.1 Brazil
  - 5.4.4.2 Argentina
  - 5.4.4.3 Rest of South America
- 5.4.5 Middle East and Africa
  - 5.4.5.1 United Arab Emirates
  - 5.4.5.2 Saudi Arabia
  - 5.4.5.3 Rest of Middle East and Africa

## 6 COMPETITIVE LANDSCAPE

- 6.1 Vendor Market Share
- 6.2 Company Profiles\*
  - 6.2.1 Robert Bosch GmbH
  - 6.2.2 DENSO Corporation
  - 6.2.3 HELLA GmbH & Co. KGaA
  - 6.2.4 Methode Electronics Inc.
  - 6.2.5 Continental AG
  - 6.2.6 Honeywell Inc.
  - 6.2.7 Infineon Technology
  - 6.2.8 NXP Semiconductors N.V.
  - 6.2.9 Sensata Technologies
  - 6.2.10 Hitachi Metals

## 7 MARKET OPPORTUNITIES AND FUTURE TRENDS

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Automotive Steering Sensors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 127 pages | Mordor Intelligence

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

### ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	2025-06-07
		Signature	

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)  
[www.scotts-international.com](http://www.scotts-international.com)