

Automotive Steering Sensor Market - Strategic Insights and Forecasts (2026-2031)

<https://marketpublishers.com/r/AF9E61B2B9C8EN.html>

Date: March 2026

Pages: 140

Price: US\$ 3,950.00 (Single User License)

ID: AF9E61B2B9C8EN

Abstracts

The Global Automotive Steering Sensor market is forecast to grow at a CAGR of 8.4%, reaching USD 2.7 billion in 2031 from USD 1.8 billion in 2026.

The automotive steering sensor market is a critical component within the broader automotive electronics and safety systems ecosystem. These sensors enable accurate measurement of steering angle, torque, and rotational movement, supporting advanced driver assistance systems (ADAS), electric power steering (EPS), and autonomous driving technologies. The market is closely aligned with global vehicle production trends and the rapid shift toward electrification and intelligent mobility. Increasing regulatory focus on vehicle safety, along with the integration of electronic control systems in modern vehicles, is strengthening demand. The transition from mechanical to electronic steering systems is further enhancing the strategic importance of steering sensors across passenger and commercial vehicles.

Market Drivers

The primary driver of the automotive steering sensor market is the growing adoption of ADAS and autonomous driving technologies. These systems rely heavily on real-time data from steering sensors to ensure vehicle stability, lane keeping, and collision avoidance. As automakers prioritize safety and automation, the integration of advanced sensing technologies is accelerating across vehicle platforms.

The expansion of electric vehicles is another major growth factor. EVs increasingly utilize electronic power steering systems, which depend on precise sensor inputs for efficient operation. Government initiatives promoting low-emission vehicles are indirectly boosting the demand for steering sensors.

Additionally, rising global vehicle production and increasing consumer demand for enhanced driving comfort and safety features are contributing to sustained market growth. The integration of smart electronics and digital control systems is further expanding application scope.

Market Restraints

Despite positive growth trends, the market faces several challenges. High costs associated with advanced sensor technologies and integration complexity can limit adoption, particularly in entry-level and cost-sensitive vehicle segments.

Technical challenges such as calibration requirements, durability under harsh operating conditions, and maintaining accuracy over time also impact deployment. Manufacturers must continuously invest in research and development to ensure reliability and compliance with automotive safety standards.

Supply chain dependencies for semiconductor components and electronic systems may also affect production timelines and pricing structures.

Technology and Segment Insights

The market is segmented by sensor type into steering angle sensors, torque sensors, and multi-functional sensor systems. Steering angle and torque sensors dominate due to their essential role in vehicle control and safety applications.

By technology, the market includes contact-based and contactless sensors. Contactless technologies, such as magnetic and optical sensors, are gaining traction due to their higher accuracy, durability, and reduced wear and tear.

In terms of application, key segments include electric power steering, ADAS, and autonomous driving systems. Electric power steering represents a major share due to its widespread adoption across modern vehicles.

By vehicle type, passenger vehicles account for the largest share, driven by high production volumes and increasing integration of advanced safety features. Commercial vehicles are also witnessing steady adoption, particularly in fleet and logistics applications.

Technological advancements are focused on sensor miniaturization, improved signal processing, and enhanced integration with vehicle control systems. The development of multi-functional sensors is enabling higher efficiency and reduced system complexity.

Competitive and Strategic Outlook

The automotive steering sensor market is moderately competitive, with the presence of major automotive suppliers and electronics manufacturers. Companies are focusing on innovation, strategic partnerships, and vertical integration to strengthen their market position.

Asia-Pacific dominates the market due to strong automotive manufacturing in countries such as China, Japan, and South Korea. The region benefits from high vehicle production volumes and increasing adoption of advanced automotive technologies.

Strategic initiatives include investment in next-generation sensor technologies, collaborations with OEMs, and expansion of production capabilities. Companies are also focusing on developing cost-effective solutions to cater to emerging markets.

Conclusion

The automotive steering sensor market is poised for steady growth, driven by advancements in vehicle safety, electrification, and automation. While cost and technical challenges persist, continuous innovation and regulatory support will sustain long-term market expansion.

Key Benefits of this Report

Insightful Analysis: Gain detailed market insights across regions, customer segments, policies, socio-economic factors, consumer preferences, and industry verticals.

Competitive Landscape: Understand strategic moves by key players to identify optimal market entry approaches.

Market Drivers and Future Trends: Assess major growth forces and emerging developments shaping the market.

Actionable Recommendations: Support strategic decisions to unlock new

revenue streams.

Caters to a Wide Audience: Suitable for startups, research institutions, consultants, SMEs, and large enterprises.

What Businesses Use Our Reports For

Industry and market insights, opportunity assessment, product demand forecasting, market entry strategy, geographical expansion, capital investment decisions, regulatory analysis, new product development, and competitive intelligence.

Report Coverage

Historical data from 2021 to 2025 and forecast data from 2026 to 2031

Growth opportunities, challenges, supply chain outlook, regulatory framework, and trend analysis

Competitive positioning, strategies, and market share evaluation

Revenue growth and forecast assessment across segments and regions

Company profiling including strategies, products, financials, and key developments

Contents

1. INTRODUCTION

- 1.1. Market Overview
- 1.2. Market Definition
- 1.3. Scope of the Study
- 1.4. Market Segmentation
- 1.5. Currency
- 1.6. Assumptions
- 1.7. Base, and Forecast Years Timeline
- 1.8. Key Benefits to the stakeholder

2. RESEARCH METHODOLOGY

- 2.1. Research Design
- 2.2. Research Processes

3. EXECUTIVE SUMMARY

- 3.1. Key Findings
- 3.2. Analyst View

4. MARKET DYNAMICS

- 4.1. Market Drivers
- 4.2. Market Restraints
- 4.3. Porter's Five Forces Analysis
 - 4.3.1. Bargaining Power of Suppliers
 - 4.3.2. Bargaining Power of Buyers
 - 4.3.3. Threat of New Entrants
 - 4.3.4. Threat of Substitutes
 - 4.3.5. Competitive Rivalry in the Industry
- 4.4. Industry Value Chain Analysis
- 4.5. Analyst View

5. AUTOMOTIVE STEERING SENSOR MARKET, BY SENSOR TYPE

- 5.1. Introduction

- 5.2. Health Monitoring Systems
 - 5.2.1. Market Trends and Opportunities
 - 5.2.2. Growth Prospects
 - 5.2.3. Geographic Lucrativeness
- 5.3. Torque Sensors
 - 5.3.1. Market Trends and Opportunities
 - 5.3.2. Growth Prospects
 - 5.3.3. Geographic Lucrativeness
- 5.4. Intelligent Multi-Functional Sensor Systems
 - 5.4.1. Market Trends and Opportunities
 - 5.4.2. Growth Prospects
 - 5.4.3. Geographic Lucrativeness
- 5.5. Position Sensors/ Angle Sensors
 - 5.5.1. Market Trends and Opportunities
 - 5.5.2. Growth Prospects
 - 5.5.3. Geographic Lucrativeness
- 5.6. Others
 - 5.6.1. Market Trends and Opportunities
 - 5.6.2. Growth Prospects
 - 5.6.3. Geographic Lucrativeness

6. AUTOMOTIVE STEERING SENSOR MARKET, BY TECHNOLOGY

- 6.1. Introduction
- 6.2. Contacting
 - 6.2.1. Market Trends and Opportunities
 - 6.2.2. Growth Prospects
 - 6.2.3. Geographic Lucrativeness
- 6.3. Magnetic
 - 6.3.1. Market Trends and Opportunities
 - 6.3.2. Growth Prospects
 - 6.3.3. Geographic Lucrativeness

7. AUTOMOTIVE STEERING SENSOR MARKET, BY VEHICLE TYPE

- 7.1. Introduction
- 7.2. Passenger Cars
 - 7.2.1. Market Trends and Opportunities
 - 7.2.2. Growth Prospects

- 7.2.3. Geographic Lucrativeness
- 7.3. Commercial Vehicles
 - 7.3.1. Market Trends and Opportunities
 - 7.3.2. Growth Prospects
 - 7.3.3. Geographic Lucrativeness

8. AUTOMOTIVE STEERING SENSOR MARKET, BY GEOGRAPHY

- 8.1. Introduction
- 8.2. North America
 - 8.2.1. By Sensor Type
 - 8.2.2. By Technology
 - 8.2.3. By Vehicle Type
 - 8.2.4. By Country
 - 8.2.4.1. United States
 - 8.2.4.1.1. Market Trends and Opportunities
 - 8.2.4.1.2. Growth Prospects
 - 8.2.4.2. Canada
 - 8.2.4.2.1. Market Trends and Opportunities
 - 8.2.4.2.2. Growth Prospects
 - 8.2.4.3. Mexico
 - 8.2.4.3.1. Market Trends and Opportunities
 - 8.2.4.3.2. Growth Prospects
- 8.3. South America
 - 8.3.1. By Sensor Type
 - 8.3.2. By Technology
 - 8.3.3. By Vehicle Type
 - 8.3.4. By Country
 - 8.3.4.1. Brazil
 - 8.3.4.1.1. Market Trends and Opportunities
 - 8.3.4.1.2. Growth Prospects
 - 8.3.4.2. Argentina
 - 8.3.4.2.1. Market Trends and Opportunities
 - 8.3.4.2.2. Growth Prospects
 - 8.3.4.3. Others
 - 8.3.4.3.1. Market Trends and Opportunities
 - 8.3.4.3.2. Growth Prospects
- 8.4. Europe
 - 8.4.1. By Sensor Type

8.4.2. By Technology

8.4.3. By Vehicle Type

8.4.4. By Country

8.4.4.1. United Kingdom

8.4.4.1.1. Market Trends and Opportunities

8.4.4.1.2. Growth Prospects

8.4.4.2. Germany

8.4.4.2.1. Market Trends and Opportunities

8.4.4.2.2. Growth Prospects

8.4.4.3. France

8.4.4.3.1. Market Trends and Opportunities

8.4.4.3.2. Growth Prospects

8.4.4.4. Italy

8.4.4.4.1. Market Trends and Opportunities

8.4.4.4.2. Growth Prospects

8.4.4.5. Spain

8.4.4.5.1. Market Trends and Opportunities

8.4.4.5.2. Growth Prospects

8.4.4.6. Others

8.4.4.6.1. Market Trends and Opportunities

8.4.4.6.2. Growth Prospects

8.5. Middle East and Africa

8.5.1. By Sensor Type

8.5.2. By Technology

8.5.3. By Vehicle Type

8.5.4. By Country

8.5.4.1. Saudi Arabia

8.5.4.1.1. Market Trends and Opportunities

8.5.4.1.2. Growth Prospects

8.5.4.2. UAE

8.5.4.2.1. Market Trends and Opportunities

8.5.4.2.2. Growth Prospects

8.5.4.3. Others

8.5.4.3.1. Market Trends and Opportunities

8.5.4.3.2. Growth Prospects

8.6. Asia Pacific

8.6.1. By Sensor Type

8.6.2. By Technology

8.6.3. By Vehicle Type

8.6.4. By Country

8.6.4.1. Japan

8.6.4.1.1. Market Trends and Opportunities

8.6.4.1.2. Growth Prospects

8.6.4.2. China

8.6.4.2.1. Market Trends and Opportunities

8.6.4.2.2. Growth Prospects

8.6.4.3. India

8.6.4.3.1. Market Trends and Opportunities

8.6.4.3.2. Growth Prospects

8.6.4.4. South Korea

8.6.4.4.1. Market Trends and Opportunities

8.6.4.4.2. Growth Prospects

8.6.4.5. Taiwan

8.6.4.5.1. Market Trends and Opportunities

8.6.4.5.2. Growth Prospects

8.6.4.6. Thailand

8.6.4.6.1. Market Trends and Opportunities

8.6.4.6.2. Growth Prospects

8.6.4.7. Indonesia

8.6.4.7.1. Market Trends and Opportunities

8.6.4.7.2. Growth Prospects

8.6.4.8. Others

8.6.4.8.1. Market Trends and Opportunities

8.6.4.8.2. Growth Prospects

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

9.1. Major Players and Strategy Analysis

9.2. Market Share Analysis

9.3. Mergers, Acquisitions, Agreements, and Collaborations

9.4. Competitive Dashboard

10. COMPANY PROFILES

10.1. Bosch Mobility

10.2. TT Electronics

10.3. VBOX Automotive

10.4. HELLA

- 10.5. Valeo
- 10.6. Methode Sensor Technologies
- 10.7. Aumann AG
- 10.8. Infineon
- 10.9. Amphenol Advanced Sensors
- 10.10. Allied Motion

I would like to order

Product name: Automotive Steering Sensor Market - Strategic Insights and Forecasts (2026-2031)

Product link: <https://marketpublishers.com/r/AF9E61B2B9C8EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AF9E61B2B9C8EN.html>