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Global Hall-Effect Sensors for Automotive Market Growth 2025-2031

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Abstracts

The global Hall-Effect Sensors for Automotive market size is predicted to grow from US$ 726 million in 2025 to US$ 989 million in 2031; it is expected to grow at a CAGR of 5.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The Hall effect sensor is a transducer that adjusts its output voltage based on changes in the magnetic field. When current flows through a conductor, the sensor detects the Hall voltage generated on both sides of the conductor, enabling precise measurement of the magnetic field's strength and direction. This type of sensor is widely used in proximity switches, position detection, speed measurement, and current sensing, offering significant advantages such as non-contact operation, high reliability, and the ability to detect a wide range of magnetic fields. As a critical component, Hall effect sensors play an indispensable role in automotive electronics, consumer electronics, industrial automation, and many other fields.

In the electrification process of modern automobiles, Hall sensors have become key components. The three-electric (battery, motor, and control) systems of new energy vehicles heavily rely on Hall technology: battery management systems use Hall current sensors for accurate charge-discharge monitoring; drive motors depend on Hall position sensors for rotor angle detection, achieving control precision up to 0.1°; in steer-by-wire chassis systems, Hall sensors are widely applied in electric power steering (EPS), electronic throttles, and brake-by-wire systems, replacing traditional mechanical structures. With the evolution of automotive electronic architectures, the number of Hall

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sensors per vehicle has exceeded 30, covering more than 20 subsystems, including window lift mechanisms, seat adjustments, and gearshift assemblies.

United States market for Hall-Effect Sensors for Automotive is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Hall-Effect Sensors for Automotive is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Hall-Effect Sensors for Automotive is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Hall-Effect Sensors for Automotive players cover Allegro MicroSystem, Melexis, Infineon, TDK, Asahi Kasei Microdevices, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Hall-Effect Sensors for Automotive Industry Forecast” looks at past sales and reviews total world Hall-Effect Sensors for Automotive sales in 2024, providing a comprehensive analysis by region and market sector of projected Hall-Effect Sensors for Automotive sales for 2025 through 2031. With Hall-Effect Sensors for Automotive sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Hall-Effect Sensors for Automotive industry.

This Insight Report provides a comprehensive analysis of the global Hall-Effect Sensors for Automotive landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hall-Effect Sensors for Automotive portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Hall-Effect Sensors for Automotive market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hall-Effect Sensors for Automotive and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hall-Effect Sensors for

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Automotive.

This report presents a comprehensive overview, market shares, and growth opportunities of Hall-Effect Sensors for Automotive market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Si-based Materials
- InSb-based Materials
- GaAs-based Materials
- InAs-based Materials
- Others

Segmentation by Application:

- Passenger Car
- Commercial Vehicle

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC

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China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

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from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Allegro MicroSystem

Melexis

Infineon

TDK

Asahi Kasei Microdevices

ams OSRAM

NXP

Diodes

Texas Instruments

Suzhou Novosense Microelectronics

Shanghai Orient-Chip Technology

Honeywell

TE Connectivity

Analog Devices

Semiment Technology

Cosemitech

Senksemi-electronics

CrossChip Microsystems

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MEMSIC Semiconductor

Key Questions Addressed in this Report
What is the 10-year outlook for the global Hall-Effect Sensors for Automotive market?
What factors are driving Hall-Effect Sensors for Automotive market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Hall-Effect Sensors for Automotive market opportunities vary by end market size?
How does Hall-Effect Sensors for Automotive break out by Type, by Application?

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