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Global Automotive Hall Effect Current Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Hall Effect Current Sensor market size is expected to reach $ 242 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).
Automotive Hall effect current sensors are electronic components that measure current by generating a magnetic field through current detection. They are characterized by non-contact operation, high precision, and fast response, and are widely used in battery management systems, motor control, electric power steering, on-board charging, and inverter systems. They are key components in automotive electrification and new energy vehicles. The automotive Hall effect current sensor industry chain includes upstream semiconductor materials, Hall chips, magnetic materials, packaging substrates, and lead frames; midstream manufacturing encompasses chip integration, packaging testing, calibration, and automotive-grade reliability verification; downstream applications cover OEMs, Tier 1 component suppliers, and battery system and power electronics module integrators. Supporting services include functional safety certification, quality testing, and continuous supply assurance. In 2025, the global production of automotive Hall effect current sensors was approximately 14.25 million units, with a global average market price of approximately US$9.5 per unit. The gross profit margin of major companies in the industry ranged from 35% to 55%. In 2025, the global production capacity of automotive Hall effect current sensors was approximately 19 million units.
Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and

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North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea, Germany, India, Mexico, and other countries; among them, China is the largest automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.The Automotive Hall Effect Current Sensor market is supported by the continuous electrification of vehicles and the increasing penetration of hybrid and electric cars. Accurate current sensing is critical for battery safety, energy efficiency, and power control. Advancements in semiconductor integration and packaging technologies improve sensor accuracy, reliability, and cost efficiency. Growing demand from battery management systems and power electronics modules will continue to drive stable market growth, while automotive-grade standards maintain high entry barriers for new suppliers.

This report studies the global Automotive Hall Effect Current Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Hall Effect Current 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 Hall Effect Current Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Hall Effect Current Sensor total production and demand, 2021-2032, (K Units)

Global Automotive Hall Effect Current Sensor total production value, 2021-2032, (USD Million)

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

Global Automotive Hall Effect Current Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Hall Effect Current Sensor domestic production, consumption, key domestic manufacturers and share

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

Global Automotive Hall Effect Current Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Hall Effect Current Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Automotive Hall Effect Current 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 Asahi Kasei Microdevices, Lem Holding SA, Allegro, Infineon, Honeywell, Melexis, Kohshin Electric, Texas Instruments, TDK Micronas, CRRC, 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 Hall Effect Current 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 Hall Effect Current Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Hall Effect Current Sensor Market, Segmentation by Type:

Open Loop Hall Effect Current Sensor

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Close Loop Hall Effect Current Sensor

Global Automotive Hall Effect Current Sensor Market, Segmentation by Current Range:

Low Current Hall Sensor (300A)

Global Automotive Hall Effect Current Sensor Market, Segmentation by Measurement Type:

DC Current Hall Sensor

AC Current Hall Sensor

AC/DC Current Hall Sensor

Global Automotive Hall Effect Current Sensor Market, Segmentation by Application:

Gas Vehicle

Electric Vehicle

Companies Profiled:

Asahi Kasei Microdevices

Lem Holding SA

Allegro

Infineon

Honeywell

Melexis

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Kohshin Electric

Texas Instruments

TDK Micronas

CRRC

AMS

Diodes

Littelfuse

TT Electronics

Analog Devices

LEM sensors

Key Questions Answered:

1. How big is the global Automotive Hall Effect Current Sensor market?
2. What is the demand of the global Automotive Hall Effect Current Sensor market?
3. What is the year over year growth of the global Automotive Hall Effect Current Sensor market?
4. What is the production and production value of the global Automotive Hall Effect Current Sensor market?
5. Who are the key producers in the global Automotive Hall Effect Current Sensor market?
6. What are the growth factors driving the market demand?

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