

Global Open-Loop Hall Current Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Open-Loop Hall Current Sensor market size is expected to reach \$ 820 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

In 2025, global Open-Loop Hall Current Sensor production reached approximately 385.7M Units, with an average global market price of around 1.1 USD per Unit.

An Open-Loop Hall Current Sensor is a current-measurement device that uses the Hall effect to directly detect the magnetic field generated around a current-carrying conductor and converts it into a voltage, current, or digital output signal proportional to the measured current.

The upstream raw materials for Open-Loop Hall Current Sensor mainly include monocrystalline silicon, photomasks, photoresists, bonding materials, etc. Typical raw material suppliers include Shin-Etsu Chemical, SUMCO, Siltronic, SK Siltron, Tekscend Photomask, Photronics, DNP, Tokyo Ohka Kogyo, JSR, etc. The downstream applications are mainly in industrial automation and motor drives, new energy vehicles, energy storage, consumer electronics, etc. Typical users include Siemens, ABB, Schneider Electric, Rockwell Automation, Tesla, BYD, NIO, Li Auto, etc.

The single-line capacity of Open-Loop Hall Current Sensor varies greatly due to factors such as wafer capacity, packaging capability, calibration and testing cycle time, and finished product yield. The industry gross profit margin is approximately 35%-55%.

Open-loop Hall current sensors directly detect the magnetic field generated by a current-carrying conductor, enabling non-contact measurement of DC, AC, and pulsed currents.

Their key advantages include galvanic isolation, simple architecture, relatively low power consumption, a wide measurement range, compact size, and competitive cost. Compared with shunt-resistor solutions, they reduce power loss and heat generation in the primary current path while limiting the safety risks associated with direct electrical connections between high-voltage circuits and low-voltage control systems. Compared with closed-loop Hall current sensors, they eliminate the need for compensation coils and complex feedback circuits, making them particularly suitable for high-volume applications where cost, size, and ease of integration are critical. As electric vehicles, energy storage systems, photovoltaic inverters, industrial drives, and smart appliances require an increasing number of current-sensing points, open-loop Hall current sensors provide a practical balance of performance, reliability, and system cost.

From a regional perspective, Europe, North America, and Japan have established strong capabilities in Hall sensing elements, analog signal processing, magnetic materials, and automotive-grade reliability. Leading international suppliers maintain competitive positions in automotive electronics and high-end industrial applications through broad product portfolios, long-standing customer qualifications, and global supply networks. Supported by its large electric vehicle, photovoltaic, energy storage, charging infrastructure, and industrial automation industries, China has become an important market for demand growth and localized production. Chinese manufacturers are gradually expanding from general-purpose industrial products into high-accuracy, low-drift, high-isolation, and automotive-grade solutions.

Looking ahead, vehicle electrification, renewable energy deployment, energy storage adoption, and industrial digitalization will continue to increase demand for current monitoring, control, and protection. The expansion of 800 V automotive architectures and the wider use of silicon carbide and gallium nitride power devices will drive open-loop Hall current sensors toward higher bandwidth, faster response, stronger isolation, and lower thermal drift. Further integration of sensing ICs, current conductors, and magnetic structures is also expected to reduce device size and improve total system cost. Supported by their mature technology, reliable performance, ease of integration, and cost efficiency, open-loop Hall current sensors are well positioned to expand across electric vehicles, solar-plus-storage and charging systems, robotics, smart manufacturing, data-center power systems, and energy-efficient appliances, providing the industry with a solid foundation for sustained long-term growth.

This report studies the global Open-Loop Hall Current Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Open-Loop Hall Current Sensor total production and demand, 2021-2032, (Million Units)

Global Open-Loop Hall Current Sensor total production value, 2021-2032, (USD Million)

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

Global Open-Loop Hall Current Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Open-Loop Hall Current Sensor domestic production, consumption, key domestic manufacturers and share

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

Global Open-Loop Hall Current Sensor production by Rated Current Range, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Open-Loop Hall Current Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Open-Loop Hall 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 Allegro, Melexis, TDK, LEM Holding, Infineon, Asahi Kasei Microdevices, Texas Instruments, TAMURA Corporation, Honeywell, Monolithic Power Systems, 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 Open-Loop Hall Current Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Rated Current Range, 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 Open-Loop Hall Current Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Open-Loop Hall Current Sensor Market, Segmentation by Rated Current Range:

Current: Below 20A

20A ? Current

100A ? Current

500A ? Current

Current: Above 2000A

Global Open-Loop Hall Current Sensor Market, Segmentation by Accuracy:

1.0% FS Above

0.5%?1.0% FS

0.5% FS Below

Global Open-Loop Hall Current Sensor Market, Segmentation by Isolation Voltage:

1 Kv Below

1 kV-3 kV

3 Kv Above

Global Open-Loop Hall Current Sensor Market, Segmentation by Application:

Industrial

Automotive & Transportation

Energy & Power

Consumer Electronics

Other

Companies Profiled:

Allegro

Melexis

TDK

LEM Holding

Infineon

Asahi Kasei Microdevices

Texas Instruments

TAMURA Corporation

Honeywell

Monolithic Power Systems

Shenzhen Aihuadi Technology

Zhuhai CHIPSENSE Electronic Technology

Suzhou Novosense Microelectronics

Shanghai canrui Technology

Semiment Technology

Cosemitech (Shanghai)

Nanjing Zhongxu Electronics Science & Technology

Innosense Electronics

Sinomags

Magtron

Key Questions Answered:

1. How big is the global Open-Loop Hall Current Sensor market?
2. What is the demand of the global Open-Loop Hall Current Sensor market?
3. What is the year over year growth of the global Open-Loop Hall Current Sensor market?
4. What is the production and production value of the global Open-Loop Hall Current Sensor market?

5. Who are the key producers in the global Open-Loop Hall Current Sensor market?
6. What are the growth factors driving the market demand?

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