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

https://marketpublishers.com/r/GE16CC39F551EN.html
Date: August 2026
Pages: 138
Price: US$ 4,480.00 (Single User License)
ID: GE16CC39F551EN

Abstracts

The global Closed Loop Hall Current Sensor market size is expected to reach $ 514 million by 2032, rising at a market growth of 9.7% CAGR during the forecast period (2026-2032).

In 2025, global Closed Loop Hall Current Sensor production reached approximately 185.7M Units, with an average global market price of around 1.4 USD per Unit.

A Closed-Loop Hall Current Sensor, also known as a compensated Hall current sensor or zero-flux Hall current sensor, is a current-measurement device that combines the Hall effect with magnetic negative-feedback control. When the primary current generates magnetic flux in the magnetic core, a Hall element detects the resulting flux variation. The control circuit then drives a secondary compensation coil to generate an opposing magnetic field, maintaining the net magnetic flux inside the core at approximately zero. Because the compensation current corresponds to the primary current according to the winding ratio, the primary current can be determined by measuring the compensation current.

The upstream raw materials for Closed 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 Closed Loop Hall Current Sensor varies greatly due to

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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%.

Closed-loop Hall current sensors use a compensation winding and negative-feedback circuit to maintain the net magnetic flux inside the core at nearly zero, substantially reducing the effects of magnetic hysteresis, temperature variation, and core nonlinearity on measurement performance. This architecture enables the sensors to combine galvanic isolation with high accuracy, fast response, wide bandwidth, and bidirectional current measurement. As electric vehicle traction systems, energy-storage converters, industrial servo systems, and rail equipment move toward higher voltage, larger current, and more dynamic power control, conventional current-sensing solutions increasingly face limitations in thermal drift, transient response, long-term stability, and electromagnetic immunity. Closed-loop Hall current sensors provide stable current feedback for power control, fault protection, and energy management, addressing the critical industry requirement for safe electrical isolation without sacrificing measurement accuracy or response speed.

From a regional perspective, Europe and Japan have established strong capabilities in closed-loop current sensing, precision magnetic materials, winding technology, and industrial automation applications. Leading international suppliers retain competitive positions in industrial drives, rail transportation, and high-end new-energy equipment through mature magnetic-circuit designs, extensive reliability validation, and established global customer relationships. Demand in North America is concentrated in renewable energy, power equipment, aerospace electronics, and test and measurement applications, while China has become an important market for demand expansion and supply-chain localization, supported by rapid growth in electric vehicles, photovoltaic systems, energy storage, charging equipment, and industrial automation.

Looking ahead, the wider adoption of high-voltage electric vehicle platforms, expansion of energy-storage capacity, integration of renewable power, and upgrading of industrial equipment will continue to increase demand for high-accuracy isolated current measurement. The growing use of silicon carbide and gallium nitride power semiconductors, with their higher switching frequencies and faster current transients, will require closed-loop Hall current sensors to deliver greater bandwidth, faster response, and stronger immunity to common-mode interference. These requirements will also encourage further integration of magnetic cores, compensation windings, control electronics, and digital interfaces. Although closed-loop products generally carry higher costs and power consumption than open-loop alternatives, their value remains

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difficult to replace in systems where safety, control accuracy, and operational stability are essential, supporting continued growth across advanced industrial control, electric vehicles, energy-storage conversion, rail transportation, precision power supplies, and next-generation energy equipment.

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

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

Highlights and key features of the study

Global Closed Loop Hall Current Sensor total production and demand, 2021-2032, (Million Units)
Global Closed Loop Hall Current Sensor total production value, 2021-2032, (USD Million)
Global Closed Loop Hall Current Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Closed Loop Hall Current Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Closed Loop Hall Current Sensor domestic production, consumption, key domestic manufacturers and share
Global Closed Loop Hall Current Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Closed Loop Hall Current Sensor production by Rated Current Range, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)
Global Closed Loop Hall Current Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Closed 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.

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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 Closed 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 Closed Loop Hall Current Sensor Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

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

- Current: Below 20A

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20A ? Current
100A ? Current
500A ? Current
Current: Above 2000A

Global Closed Loop Hall Current Sensor Market, Segmentation by Accuracy:

1.0% FS Above

0.5%?1.0% FS

0.5% FS Below

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

1 Kv Below

1 kV-3 kV

3 Kv Above

Global Closed Loop Hall Current Sensor Market, Segmentation by Application:

Industrial

Automotive & Transportation

Energy & Power

Consumer Electronics

Other

Companies Profiled:

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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

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Key Questions Answered:

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

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