

Global Magnetic Current Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Current Sensors market size is expected to reach \$ 5461 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

In 2025, global Magnetic Current Sensor output reached about 1.6 billion units and global capacity of around 2.0 billion units. The average price is about USD 2 per unit, with gross margins near 32%. Magnetic Current Sensors are electronic sensing devices that measure electric current by detecting the magnetic field generated around a conductor, without requiring direct electrical contact with the measured circuit. These sensors are widely used for AC and DC current measurement, isolation monitoring, power management, motor control, battery systems, renewable energy equipment, industrial automation, electric vehicles, smart grids, and consumer electronics. Common technologies include Hall-effect sensors, fluxgate sensors, magnetoresistive sensors (AMR/GMR/TMR), Rogowski coils, and current transformers. The supply chain of Magnetic Current Sensors begins with upstream raw material and component suppliers providing semiconductor wafers, magnetic cores, Hall elements, ASIC chips, ferrite materials, copper coils, packaging substrates, and rare-earth magnetic materials. Midstream manufacturers design and produce current sensing ICs, integrated sensor modules, isolated current transducers, and smart power-monitoring systems through semiconductor fabrication, magnetic component assembly, calibration, and packaging processes. Downstream applications span automotive battery management systems (BMS), EV powertrains, industrial motor drives, photovoltaic inverters, energy storage systems, power supplies, smart meters, telecom infrastructure, robotics, rail transportation, and consumer electronic devices, where accurate current monitoring is essential for efficiency, safety, and energy management.

This report studies the global Magnetic Current Sensors production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Magnetic Current Sensors total production and demand, 2021-2032, (Million Units)

Global Magnetic Current Sensors total production value, 2021-2032, (USD Million)

Global Magnetic Current Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Magnetic Current Sensors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Magnetic Current Sensors domestic production, consumption, key domestic manufacturers and share

Global Magnetic Current Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Magnetic Current Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Magnetic Current Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Magnetic Current Sensors 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 MicroSystems, Infineon Technologies, LEM Holding, Texas Instruments, Honeywell, TDK Corporation, STMicroelectronics, onsemi, NXP Semiconductors, Analog Devices, 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 Magnetic Current Sensors 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 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 Magnetic Current Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Current Sensors Market, Segmentation by Type:

Open-Loop Sensors

Closed-Loop Sensors

Global Magnetic Current Sensors Market, Segmentation by Operating Voltage:

600 V

Global Magnetic Current Sensors Market, Segmentation by Application:

Automotive

Industrial

Energy Storage

Railways

Telecom & Data Centers

Others

Companies Profiled:

Allegro MicroSystems

Infineon Technologies

LEM Holding

Texas Instruments

Honeywell

TDK Corporation

STMicroelectronics

onsemi

NXP Semiconductors

Analog Devices

Melexis

TE Connectivity

ROHM Semiconductor

Littelfuse

Tamura

Novosense

MagnTek

Asensing Technology

Key Questions Answered:

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

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