

Global Magnetic Current Sensors Market Growth 2026-2032

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Abstracts

The global Magnetic Current Sensors market size is predicted to grow from US\$ 3140 million in 2025 to US\$ 5327 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 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.

United States market for Magnetic Current Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Magnetic Current Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Magnetic Current Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Magnetic Current Sensors players cover Allegro MicroSystems, Infineon Technologies, LEM Holding, Texas Instruments, Honeywell, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Magnetic Current Sensors Industry Forecast" looks at past sales and reviews total world Magnetic Current Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnetic Current Sensors sales for 2026 through 2032. With Magnetic Current Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnetic Current Sensors industry.

This Insight Report provides a comprehensive analysis of the global Magnetic Current Sensors 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 Magnetic Current Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Magnetic Current Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetic Current Sensors 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 Magnetic Current Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnetic Current Sensors market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Open-Loop Sensors

Closed-Loop Sensors

Segmentation by Operating Voltage:

600 V

Segmentation by Application:

Automotive

Industrial

Energy Storage

Railways

Telecom & Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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

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 Addressed in this Report

What is the 10-year outlook for the global Magnetic Current Sensors market?

What factors are driving Magnetic Current Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Magnetic Current Sensors market opportunities vary by end market size?

How does Magnetic Current Sensors break out by Type, by Application?

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