

Global Magnetic Current Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Magnetic Current Sensors market size was valued at US\$ 3303 million in 2025 and is forecast to a readjusted size of US\$ 5461 million by 2032 with a CAGR of 7.4% during review period.

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 is a detailed and comprehensive analysis for global Magnetic Current Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Magnetic Current Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Current Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Current Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Current Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Magnetic Current Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Magnetic Current Sensors market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Magnetic Current Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Open-Loop Sensors

Closed-Loop Sensors

Market segment by Operating Voltage

600 V

Market segment by Application

Automotive

Industrial

Energy Storage

Railways

Telecom & Data Centers

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnetic Current Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Current Sensors, with price, sales quantity, revenue, and global market share of Magnetic Current Sensors from 2021 to 2026.

Chapter 3, the Magnetic Current Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetic Current Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Magnetic Current Sensors market forecast, by

regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnetic Current Sensors.

Chapter 14 and 15, to describe Magnetic Current Sensors sales channel, distributors, customers, research findings and conclusion.

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