

Magnetic Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-11-24 | 138 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$2499.00
- Five User Licence \$3499.00
- Enterprisewide License \$4499.00

Report description:

The global magnetic sensors market size reached US\$ 3.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 6.1 Billion by 2028, exhibiting a growth rate (CAGR) of 7.74% during 2022-2028.

Magnetic sensors are used to detect the magnitude of magnetism and geomagnetism produced by a magnet or current. They are widely available in several types with unique features. For instance, coils are the simplest magnetic sensors that can detect changes in the magnetic flux density. Moreover, miniature magnetic sensors are gaining traction across the globe for advanced intelligent measurement and control systems. At present, several manufacturers are introducing magnetic sensors with high precision for industrial applications, such as inverters and drives or battery management.

Magnetic Sensors Market Trends:

Magnetic sensors offer advantages, such as allowing contactless and wear-free measurement of mechanical quantities like the angle of rotation and speed. As they are robust and economical, the escalating demand for vehicles across the globe represents one of the significant factors driving the adoption of magnetic sensors in the automotive industry. In addition, with the advent of giant magnetoresistance (GMR) thin-film systems, manufacturers are focusing on developing a new generation of magnetic sensors that provides advantages, including large working distances and precise angular position measurement. Apart from this, magnetic sensors are being widely utilized in the military field to detect vehicles or other events in monitored areas. The rising crime rates and cross-border security issues are also bolstering the market growth. Moreover, the growing prevalence of medical conditions is influencing the usage of magnetic field sensors in the biomedical sector for manufacturing point-of-care (POC) devices. Furthermore, magnetoelectric (ME) composites with high coefficients can be utilized to make sensitive magnetic field sensors for next-generation multifunctional devices. Such advancements are anticipated to expand the applications of magnetic sensors in robotics, space equipment, and industrial measurements worldwide.

Key Market Segmentation:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

IMARC Group provides an analysis of the key trends in each sub-segment of the global magnetic sensors market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology, application and end use.

Breakup by Technology:

- Hall Effect Sensor
- Magnetoresistive Sensor
- Squid Sensor
- Fluxgate Sensor
- Others

Breakup by Application:

- Speed Sensing
- Detection
- Position Sensing
- Navigation
- Others

Breakup by End Use:

- Aerospace and Defense
- Automotive
- Consumer Electronics
- Healthcare
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Amphenol Corporation, Analog Devices Inc., Asahi Kasei Microdevices Corporation (Asahi Kasei Corporation), Honeywell International Inc., Infineon Technologies AG, NXP semiconductors N.V., Schneider Electric, ST Microelectronics, TDK Corporation, TE Connectivity and Texas Instruments Incorporated.

Key Questions Answered in This Report:

How has the global magnetic sensors market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global magnetic sensors market?
What are the key regional markets?
What is the breakup of the market based on the technology?
What is the breakup of the market based on the application?
What is the breakup of the market based on the end use?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global magnetic sensors market and who are the key players?
What is the degree of competition in the industry?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Magnetic Sensors Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.4 Market Forecast
- 6 Market Breakup by Technology
 - 6.1 Hall Effect Sensor
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Magnetoresistive Sensor
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3 Squid Sensor
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
 - 6.4 Fluxgate Sensor
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
 - 6.5 Others
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
- 7 Market Breakup by Application
 - 7.1 Speed Sensing
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Detection
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Position Sensing
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 Navigation
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
 - 7.5 Others
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 8 Market Breakup by End Use
 - 8.1 Aerospace and Defense
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 Automotive
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
 - 8.3 Consumer Electronics
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
 - 8.4 Healthcare
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
 - 8.5 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.5.1 Market Trends
- 8.5.2 Market Forecast
- 9 Market Breakup by Region
 - 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
 - 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
 - 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
 - 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast
- 10 SWOT Analysis
 - 10.1 Overview
 - 10.2 Strengths
 - 10.3 Weaknesses
 - 10.4 Opportunities
 - 10.5 Threats
- 11 Value Chain Analysis
- 12 Porters Five Forces Analysis
 - 12.1 Overview
 - 12.2 Bargaining Power of Buyers
 - 12.3 Bargaining Power of Suppliers
 - 12.4 Degree of Competition
 - 12.5 Threat of New Entrants
 - 12.6 Threat of Substitutes
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Market Structure
 - 14.2 Key Players
 - 14.3 Profiles of Key Players
 - 14.3.1 Amphenol Corporation
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 Analog Devices Inc.
 - 14.3.2.1 Company Overview

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.3.2.2 Product Portfolio
- 14.3.2.3 Financials
- 14.3.2.4 SWOT Analysis
- 14.3.3 Asahi Kasei Microdevices Corporation (Asahi Kasei Corporation)
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
- 14.3.4 Honeywell International Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis
- 14.3.5 Infineon Technologies AG
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 NXP semiconductors N.V.
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Schneider Electric
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 ST Microelectronics
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 TDK Corporation
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 TE Connectivity
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Texas Instruments Incorporated
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Magnetic Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-11-24 | 138 pages | IMARC Group

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$2499.00
	Five User Licence	\$3499.00
	Enterprisewide License	\$4499.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-23"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com