

Global MEMS Magnetic Sensor 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 MEMS Magnetic Sensor market size was valued at US\$ 1241 million in 2025 and is forecast to a readjusted size of US\$ 1832 million by 2032 with a CAGR of 5.6% during review period.

The working principle of a magnetic sensor is to convert the magnetic properties of sensitive components caused by external factors such as magnetic field, current, stress-strain, temperature, and light into voltage or current information. Featuring miniaturization, low power consumption, high sensitivity, and high reliability, it is widely used in fields such as consumer electronics, automotive industry, medical equipment, and aerospace to achieve product miniaturization, intelligence, and high efficiency.

In 2025, global MEMS Magnetic Sensor sales volume reached approximately 928 million units, with an average global market price of around US\$ 1.3 per unit.

1. Rising Demand from Automotive Electrification and Advanced Driver Systems

One of the most significant trends in the MEMS magnetic sensor market is the strong growth driven by automotive electrification and increasing sensor content per vehicle. MEMS magnetic sensors are widely used for position sensing, speed detection, current sensing, and angle measurement in electric power steering, motor control, transmission systems, and battery management systems. The rapid penetration of electric vehicles (EVs) and hybrid vehicles is accelerating demand for high-accuracy, low-drift magnetic sensors to monitor motor position and current with greater precision. In parallel, advanced driver-assistance systems (ADAS) and safety functions are increasing the need for robust, automotive-qualified magnetic sensors, pushing the market toward

higher performance and higher reliability solutions.

2. Technology Shift from Hall Sensors toward Magneto-resistive Solutions

A clear technological trend in the MEMS magnetic sensor market is the gradual shift from traditional Hall-effect sensors toward higher-sensitivity magneto-resistive technologies, including AMR, GMR, and especially TMR sensors. While Hall sensors remain dominant in cost-sensitive and high-volume applications, magneto-resistive sensors offer superior sensitivity, lower noise, and better accuracy, enabling more precise position and angle detection. As manufacturing processes mature and costs decline, TMR and GMR sensors are increasingly adopted in automotive, industrial automation, robotics, and precision motion control applications. This transition is driving higher average selling prices and expanding the addressable market for advanced MEMS magnetic sensors.

3. Expansion of Industrial Automation, Robotics, and IoT Applications

The growing adoption of industrial automation, robotics, and IoT systems is another major trend supporting MEMS magnetic sensor market growth. In industrial environments, magnetic sensors are widely used for non-contact position sensing, rotational speed measurement, current monitoring, and end-of-travel detection, offering high reliability in harsh conditions where optical sensors may fail. The rise of smart factories and connected industrial equipment is increasing demand for compact, low-power, and digitally integrated MEMS magnetic sensors capable of continuous operation and real-time data feedback. This trend is shifting market growth beyond consumer electronics into higher-value industrial and infrastructure applications, strengthening long-term demand fundamentals.

This report is a detailed and comprehensive analysis for global MEMS Magnetic Sensor 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 MEMS Magnetic Sensor market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global MEMS Magnetic Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 MEMS Magnetic Sensor

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 MEMS Magnetic Sensor 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, AMS, Asahi Kasei Microdevices, Honeywell International, Infineon Technologies, Murata Manufacturing, Bosch, TDK, ams OSRAM, NXP Semiconductors, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

MEMS Magnetic Sensor 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

Hall-Effect Sensor

Magnetic Resistance Sensor

Others

Market segment by Axis

Single-axis

Dual-axis

Multi-axis

Market segment by Technology

Hall-Effect Sensor

AMR Sensor

GMR Sensor

TMR Sensor

Other

Market segment by Application

Consumer Electronics

Automotive Electronics

Industrial Control

Smart Grid

Household Appliances

Medical

Others

Major players covered

Allegro Microsystems

AMS

Asahi Kasei Microdevices

Honeywell International

Infineon Technologies

Murata Manufacturing

Bosch

TDK

ams OSRAM

NXP Semiconductors

ROHM

Semiment Technology

Coseमितech

Melexis

Memsic

Micronas Semiconductor

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 MEMS Magnetic Sensor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the MEMS Magnetic Sensor 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 MEMS Magnetic Sensor 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 MEMS Magnetic Sensor.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global MEMS Magnetic Sensor Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Hall-Effect Sensor

1.3.3 Magnetic Resistance Sensor

1.3.4 Others

1.4 Market Analysis by Axis

1.4.1 Overview: Global MEMS Magnetic Sensor Consumption Value by Axis: 2021 Versus 2025 Versus 2032

1.4.2 Single-axis

1.4.3 Dual-axis

1.4.4 Multi-axis

1.5 Market Analysis by Technology

1.5.1 Overview: Global MEMS Magnetic Sensor Consumption Value by Technology: 2021 Versus 2025 Versus 2032

1.5.2 Hall-Effect Sensor

1.5.3 AMR Sensor

1.5.4 GMR Sensor

1.5.5 TMR Sensor

1.5.6 Other

1.6 Market Analysis by Application

1.6.1 Overview: Global MEMS Magnetic Sensor Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Consumer Electronics

1.6.3 Automotive Electronics

1.6.4 Industrial Control

1.6.5 Smart Grid

1.6.6 Household Appliances

1.6.7 Medical

1.6.8 Others

1.7 Global MEMS Magnetic Sensor Market Size & Forecast

1.7.1 Global MEMS Magnetic Sensor Consumption Value (2021 & 2025 & 2032)

1.7.2 Global MEMS Magnetic Sensor Sales Quantity (2021-2032)

1.7.3 Global MEMS Magnetic Sensor Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Allegro Microsystems

2.1.1 Allegro Microsystems Details

2.1.2 Allegro Microsystems Major Business

2.1.3 Allegro Microsystems MEMS Magnetic Sensor Product and Services

2.1.4 Allegro Microsystems MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Allegro Microsystems Recent Developments/Updates

2.2 AMS

2.2.1 AMS Details

2.2.2 AMS Major Business

2.2.3 AMS MEMS Magnetic Sensor Product and Services

2.2.4 AMS MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 AMS Recent Developments/Updates

2.3 Asahi Kasei Microdevices

2.3.1 Asahi Kasei Microdevices Details

2.3.2 Asahi Kasei Microdevices Major Business

2.3.3 Asahi Kasei Microdevices MEMS Magnetic Sensor Product and Services

2.3.4 Asahi Kasei Microdevices MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Asahi Kasei Microdevices Recent Developments/Updates

2.4 Honeywell International

2.4.1 Honeywell International Details

2.4.2 Honeywell International Major Business

2.4.3 Honeywell International MEMS Magnetic Sensor Product and Services

2.4.4 Honeywell International MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Honeywell International Recent Developments/Updates

2.5 Infineon Technologies

2.5.1 Infineon Technologies Details

2.5.2 Infineon Technologies Major Business

2.5.3 Infineon Technologies MEMS Magnetic Sensor Product and Services

2.5.4 Infineon Technologies MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Infineon Technologies Recent Developments/Updates

2.6 Murata Manufacturing

2.6.1 Murata Manufacturing Details

2.6.2 Murata Manufacturing Major Business

2.6.3 Murata Manufacturing MEMS Magnetic Sensor Product and Services

2.6.4 Murata Manufacturing MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Murata Manufacturing Recent Developments/Updates

2.7 Bosch

2.7.1 Bosch Details

2.7.2 Bosch Major Business

2.7.3 Bosch MEMS Magnetic Sensor Product and Services

2.7.4 Bosch MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Bosch Recent Developments/Updates

2.8 TDK

2.8.1 TDK Details

2.8.2 TDK Major Business

2.8.3 TDK MEMS Magnetic Sensor Product and Services

2.8.4 TDK MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 TDK Recent Developments/Updates

2.9 ams OSRAM

2.9.1 ams OSRAM Details

2.9.2 ams OSRAM Major Business

2.9.3 ams OSRAM MEMS Magnetic Sensor Product and Services

2.9.4 ams OSRAM MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 ams OSRAM Recent Developments/Updates

2.10 NXP Semiconductors

2.10.1 NXP Semiconductors Details

2.10.2 NXP Semiconductors Major Business

2.10.3 NXP Semiconductors MEMS Magnetic Sensor Product and Services

2.10.4 NXP Semiconductors MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 NXP Semiconductors Recent Developments/Updates

2.11 ROHM

2.11.1 ROHM Details

2.11.2 ROHM Major Business

2.11.3 ROHM MEMS Magnetic Sensor Product and Services

- 2.11.4 ROHM MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.11.5 ROHM Recent Developments/Updates
- 2.12 Semiment Technology
 - 2.12.1 Semiment Technology Details
 - 2.12.2 Semiment Technology Major Business
 - 2.12.3 Semiment Technology MEMS Magnetic Sensor Product and Services
 - 2.12.4 Semiment Technology MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Semiment Technology Recent Developments/Updates
- 2.13 Cosemitech
 - 2.13.1 Cosemitech Details
 - 2.13.2 Cosemitech Major Business
 - 2.13.3 Cosemitech MEMS Magnetic Sensor Product and Services
 - 2.13.4 Cosemitech MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Cosemitech Recent Developments/Updates
- 2.14 Melexix
 - 2.14.1 Melexix Details
 - 2.14.2 Melexix Major Business
 - 2.14.3 Melexix MEMS Magnetic Sensor Product and Services
 - 2.14.4 Melexix MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Melexix Recent Developments/Updates
- 2.15 Memsic
 - 2.15.1 Memsic Details
 - 2.15.2 Memsic Major Business
 - 2.15.3 Memsic MEMS Magnetic Sensor Product and Services
 - 2.15.4 Memsic MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Memsic Recent Developments/Updates
- 2.16 Micronas Semiconductor
 - 2.16.1 Micronas Semiconductor Details
 - 2.16.2 Micronas Semiconductor Major Business
 - 2.16.3 Micronas Semiconductor MEMS Magnetic Sensor Product and Services
 - 2.16.4 Micronas Semiconductor MEMS Magnetic Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Micronas Semiconductor Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MEMS MAGNETIC SENSOR BY MANUFACTURER

- 3.1 Global MEMS Magnetic Sensor Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global MEMS Magnetic Sensor Revenue by Manufacturer (2021-2026)
- 3.3 Global MEMS Magnetic Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of MEMS Magnetic Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 MEMS Magnetic Sensor Manufacturer Market Share in 2025
 - 3.4.3 Top 6 MEMS Magnetic Sensor Manufacturer Market Share in 2025
- 3.5 MEMS Magnetic Sensor Market: Overall Company Footprint Analysis
 - 3.5.1 MEMS Magnetic Sensor Market: Region Footprint
 - 3.5.2 MEMS Magnetic Sensor Market: Company Product Type Footprint
 - 3.5.3 MEMS Magnetic Sensor Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global MEMS Magnetic Sensor Market Size by Region
 - 4.1.1 Global MEMS Magnetic Sensor Sales Quantity by Region (2021-2032)
 - 4.1.2 Global MEMS Magnetic Sensor Consumption Value by Region (2021-2032)
 - 4.1.3 Global MEMS Magnetic Sensor Average Price by Region (2021-2032)
- 4.2 North America MEMS Magnetic Sensor Consumption Value (2021-2032)
- 4.3 Europe MEMS Magnetic Sensor Consumption Value (2021-2032)
- 4.4 Asia-Pacific MEMS Magnetic Sensor Consumption Value (2021-2032)
- 4.5 South America MEMS Magnetic Sensor Consumption Value (2021-2032)
- 4.6 Middle East & Africa MEMS Magnetic Sensor Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global MEMS Magnetic Sensor Sales Quantity by Type (2021-2032)
- 5.2 Global MEMS Magnetic Sensor Consumption Value by Type (2021-2032)
- 5.3 Global MEMS Magnetic Sensor Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global MEMS Magnetic Sensor Sales Quantity by Application (2021-2032)

6.2 Global MEMS Magnetic Sensor Consumption Value by Application (2021-2032)

6.3 Global MEMS Magnetic Sensor Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America MEMS Magnetic Sensor Sales Quantity by Type (2021-2032)

7.2 North America MEMS Magnetic Sensor Sales Quantity by Application (2021-2032)

7.3 North America MEMS Magnetic Sensor Market Size by Country

7.3.1 North America MEMS Magnetic Sensor Sales Quantity by Country (2021-2032)

7.3.2 North America MEMS Magnetic Sensor Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe MEMS Magnetic Sensor Sales Quantity by Type (2021-2032)

8.2 Europe MEMS Magnetic Sensor Sales Quantity by Application (2021-2032)

8.3 Europe MEMS Magnetic Sensor Market Size by Country

8.3.1 Europe MEMS Magnetic Sensor Sales Quantity by Country (2021-2032)

8.3.2 Europe MEMS Magnetic Sensor Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific MEMS Magnetic Sensor Market Size by Region

9.3.1 Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific MEMS Magnetic Sensor Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America MEMS Magnetic Sensor Sales Quantity by Type (2021-2032)

10.2 South America MEMS Magnetic Sensor Sales Quantity by Application (2021-2032)

10.3 South America MEMS Magnetic Sensor Market Size by Country

10.3.1 South America MEMS Magnetic Sensor Sales Quantity by Country (2021-2032)

10.3.2 South America MEMS Magnetic Sensor Consumption Value by Country
(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Application
(2021-2032)

11.3 Middle East & Africa MEMS Magnetic Sensor Market Size by Country

11.3.1 Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Country
(2021-2032)

11.3.2 Middle East & Africa MEMS Magnetic Sensor Consumption Value by Country
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 MEMS Magnetic Sensor Market Drivers

12.2 MEMS Magnetic Sensor Market Restraints

12.3 MEMS Magnetic Sensor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of MEMS Magnetic Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of MEMS Magnetic Sensor

13.3 MEMS Magnetic Sensor Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 MEMS Magnetic Sensor Typical Distributors

14.3 MEMS Magnetic Sensor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global MEMS Magnetic Sensor Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global MEMS Magnetic Sensor Consumption Value by Axis, (USD Million), 2021 & 2025 & 2032

Table 3. Global MEMS Magnetic Sensor Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 4. Global MEMS Magnetic Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Allegro Microsystems Basic Information, Manufacturing Base and Competitors

Table 6. Allegro Microsystems Major Business

Table 7. Allegro Microsystems MEMS Magnetic Sensor Product and Services

Table 8. Allegro Microsystems MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Allegro Microsystems Recent Developments/Updates

Table 10. AMS Basic Information, Manufacturing Base and Competitors

Table 11. AMS Major Business

Table 12. AMS MEMS Magnetic Sensor Product and Services

Table 13. AMS MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. AMS Recent Developments/Updates

Table 15. Asahi Kasei Microdevices Basic Information, Manufacturing Base and Competitors

Table 16. Asahi Kasei Microdevices Major Business

Table 17. Asahi Kasei Microdevices MEMS Magnetic Sensor Product and Services

Table 18. Asahi Kasei Microdevices MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Asahi Kasei Microdevices Recent Developments/Updates

Table 20. Honeywell International Basic Information, Manufacturing Base and Competitors

Table 21. Honeywell International Major Business

Table 22. Honeywell International MEMS Magnetic Sensor Product and Services

Table 23. Honeywell International MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Honeywell International Recent Developments/Updates

Table 25. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 26. Infineon Technologies Major Business

Table 27. Infineon Technologies MEMS Magnetic Sensor Product and Services

Table 28. Infineon Technologies MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Infineon Technologies Recent Developments/Updates

Table 30. Murata Manufacturing Basic Information, Manufacturing Base and Competitors

Table 31. Murata Manufacturing Major Business

Table 32. Murata Manufacturing MEMS Magnetic Sensor Product and Services

Table 33. Murata Manufacturing MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Murata Manufacturing Recent Developments/Updates

Table 35. Bosch Basic Information, Manufacturing Base and Competitors

Table 36. Bosch Major Business

Table 37. Bosch MEMS Magnetic Sensor Product and Services

Table 38. Bosch MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Bosch Recent Developments/Updates

Table 40. TDK Basic Information, Manufacturing Base and Competitors

Table 41. TDK Major Business

Table 42. TDK MEMS Magnetic Sensor Product and Services

Table 43. TDK MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. TDK Recent Developments/Updates

Table 45. ams OSRAM Basic Information, Manufacturing Base and Competitors

Table 46. ams OSRAM Major Business

Table 47. ams OSRAM MEMS Magnetic Sensor Product and Services

Table 48. ams OSRAM MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. ams OSRAM Recent Developments/Updates

Table 50. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 51. NXP Semiconductors Major Business

- Table 52. NXP Semiconductors MEMS Magnetic Sensor Product and Services
- Table 53. NXP Semiconductors MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. NXP Semiconductors Recent Developments/Updates
- Table 55. ROHM Basic Information, Manufacturing Base and Competitors
- Table 56. ROHM Major Business
- Table 57. ROHM MEMS Magnetic Sensor Product and Services
- Table 58. ROHM MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 59. ROHM Recent Developments/Updates
- Table 60. Semiment Technology Basic Information, Manufacturing Base and Competitors
- Table 61. Semiment Technology Major Business
- Table 62. Semiment Technology MEMS Magnetic Sensor Product and Services
- Table 63. Semiment Technology MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. Semiment Technology Recent Developments/Updates
- Table 65. Cosemitech Basic Information, Manufacturing Base and Competitors
- Table 66. Cosemitech Major Business
- Table 67. Cosemitech MEMS Magnetic Sensor Product and Services
- Table 68. Cosemitech MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 69. Cosemitech Recent Developments/Updates
- Table 70. Melexis Basic Information, Manufacturing Base and Competitors
- Table 71. Melexis Major Business
- Table 72. Melexis MEMS Magnetic Sensor Product and Services
- Table 73. Melexis MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 74. Melexis Recent Developments/Updates
- Table 75. Memsic Basic Information, Manufacturing Base and Competitors
- Table 76. Memsic Major Business
- Table 77. Memsic MEMS Magnetic Sensor Product and Services
- Table 78. Memsic MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Memsic Recent Developments/Updates
- Table 80. Micronas Semiconductor Basic Information, Manufacturing Base and Competitors

- Table 81. Micronas Semiconductor Major Business
- Table 82. Micronas Semiconductor MEMS Magnetic Sensor Product and Services
- Table 83. Micronas Semiconductor MEMS Magnetic Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. Micronas Semiconductor Recent Developments/Updates
- Table 85. Global MEMS Magnetic Sensor Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 86. Global MEMS Magnetic Sensor Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 87. Global MEMS Magnetic Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 88. Market Position of Manufacturers in MEMS Magnetic Sensor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 89. Head Office and MEMS Magnetic Sensor Production Site of Key Manufacturer
- Table 90. MEMS Magnetic Sensor Market: Company Product Type Footprint
- Table 91. MEMS Magnetic Sensor Market: Company Product Application Footprint
- Table 92. MEMS Magnetic Sensor New Market Entrants and Barriers to Market Entry
- Table 93. MEMS Magnetic Sensor Mergers, Acquisition, Agreements, and Collaborations
- Table 94. Global MEMS Magnetic Sensor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 95. Global MEMS Magnetic Sensor Sales Quantity by Region (2021-2026) & (K Units)
- Table 96. Global MEMS Magnetic Sensor Sales Quantity by Region (2027-2032) & (K Units)
- Table 97. Global MEMS Magnetic Sensor Consumption Value by Region (2021-2026) & (USD Million)
- Table 98. Global MEMS Magnetic Sensor Consumption Value by Region (2027-2032) & (USD Million)
- Table 99. Global MEMS Magnetic Sensor Average Price by Region (2021-2026) & (US\$/Unit)
- Table 100. Global MEMS Magnetic Sensor Average Price by Region (2027-2032) & (US\$/Unit)
- Table 101. Global MEMS Magnetic Sensor Sales Quantity by Type (2021-2026) & (K Units)
- Table 102. Global MEMS Magnetic Sensor Sales Quantity by Type (2027-2032) & (K Units)

- Table 103. Global MEMS Magnetic Sensor Consumption Value by Type (2021-2026) & (USD Million)
- Table 104. Global MEMS Magnetic Sensor Consumption Value by Type (2027-2032) & (USD Million)
- Table 105. Global MEMS Magnetic Sensor Average Price by Type (2021-2026) & (US\$/Unit)
- Table 106. Global MEMS Magnetic Sensor Average Price by Type (2027-2032) & (US\$/Unit)
- Table 107. Global MEMS Magnetic Sensor Sales Quantity by Application (2021-2026) & (K Units)
- Table 108. Global MEMS Magnetic Sensor Sales Quantity by Application (2027-2032) & (K Units)
- Table 109. Global MEMS Magnetic Sensor Consumption Value by Application (2021-2026) & (USD Million)
- Table 110. Global MEMS Magnetic Sensor Consumption Value by Application (2027-2032) & (USD Million)
- Table 111. Global MEMS Magnetic Sensor Average Price by Application (2021-2026) & (US\$/Unit)
- Table 112. Global MEMS Magnetic Sensor Average Price by Application (2027-2032) & (US\$/Unit)
- Table 113. North America MEMS Magnetic Sensor Sales Quantity by Type (2021-2026) & (K Units)
- Table 114. North America MEMS Magnetic Sensor Sales Quantity by Type (2027-2032) & (K Units)
- Table 115. North America MEMS Magnetic Sensor Sales Quantity by Application (2021-2026) & (K Units)
- Table 116. North America MEMS Magnetic Sensor Sales Quantity by Application (2027-2032) & (K Units)
- Table 117. North America MEMS Magnetic Sensor Sales Quantity by Country (2021-2026) & (K Units)
- Table 118. North America MEMS Magnetic Sensor Sales Quantity by Country (2027-2032) & (K Units)
- Table 119. North America MEMS Magnetic Sensor Consumption Value by Country (2021-2026) & (USD Million)
- Table 120. North America MEMS Magnetic Sensor Consumption Value by Country (2027-2032) & (USD Million)
- Table 121. Europe MEMS Magnetic Sensor Sales Quantity by Type (2021-2026) & (K Units)
- Table 122. Europe MEMS Magnetic Sensor Sales Quantity by Type (2027-2032) & (K Units)

Units)

Table 123. Europe MEMS Magnetic Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 124. Europe MEMS Magnetic Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 125. Europe MEMS Magnetic Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 126. Europe MEMS Magnetic Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 127. Europe MEMS Magnetic Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 128. Europe MEMS Magnetic Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 130. Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 131. Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 132. Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 133. Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Region (2021-2026) & (K Units)

Table 134. Asia-Pacific MEMS Magnetic Sensor Sales Quantity by Region (2027-2032) & (K Units)

Table 135. Asia-Pacific MEMS Magnetic Sensor Consumption Value by Region (2021-2026) & (USD Million)

Table 136. Asia-Pacific MEMS Magnetic Sensor Consumption Value by Region (2027-2032) & (USD Million)

Table 137. South America MEMS Magnetic Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 138. South America MEMS Magnetic Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 139. South America MEMS Magnetic Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 140. South America MEMS Magnetic Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 141. South America MEMS Magnetic Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 142. South America MEMS Magnetic Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 143. South America MEMS Magnetic Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 144. South America MEMS Magnetic Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 145. Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 146. Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 147. Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 148. Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 149. Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 150. Middle East & Africa MEMS Magnetic Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 151. Middle East & Africa MEMS Magnetic Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 152. Middle East & Africa MEMS Magnetic Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 153. MEMS Magnetic Sensor Raw Material

Table 154. Key Manufacturers of MEMS Magnetic Sensor Raw Materials

Table 155. MEMS Magnetic Sensor Typical Distributors

Table 156. MEMS Magnetic Sensor Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. MEMS Magnetic Sensor Picture
- Figure 2. Global MEMS Magnetic Sensor Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global MEMS Magnetic Sensor Revenue Market Share by Type in 2025
- Figure 4. Hall-Effect Sensor Examples
- Figure 5. Magnetic Resistance Sensor Examples
- Figure 6. Others Examples
- Figure 7. Global MEMS Magnetic Sensor Revenue by Axis, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global MEMS Magnetic Sensor Revenue Market Share by Axis in 2025
- Figure 9. Single-axis Examples
- Figure 10. Dual-axis Examples
- Figure 11. Multi-axis Examples
- Figure 12. Global MEMS Magnetic Sensor Revenue by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global MEMS Magnetic Sensor Revenue Market Share by Technology in 2025
- Figure 14. Hall-Effect Sensor Examples
- Figure 15. AMR Sensor Examples
- Figure 16. GMR Sensor Examples
- Figure 17. TMR Sensor Examples
- Figure 18. Other Examples
- Figure 19. Global MEMS Magnetic Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 20. Global MEMS Magnetic Sensor Revenue Market Share by Application in 2025
- Figure 21. Consumer Electronics Examples
- Figure 22. Automotive Electronics Examples
- Figure 23. Industrial Control Examples
- Figure 24. Smart Grid Examples
- Figure 25. Household Appliances Examples
- Figure 26. Medical Examples
- Figure 27. Others Examples
- Figure 28. Global MEMS Magnetic Sensor Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 29. Global MEMS Magnetic Sensor Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 30. Global MEMS Magnetic Sensor Sales Quantity (2021-2032) & (K Units)

Figure 31. Global MEMS Magnetic Sensor Price (2021-2032) & (US\$/Unit)

Figure 32. Global MEMS Magnetic Sensor Sales Quantity Market Share by Manufacturer in 2025

Figure 33. Global MEMS Magnetic Sensor Revenue Market Share by Manufacturer in 2025

Figure 34. Producer Shipments of MEMS Magnetic Sensor by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 35. Top 3 MEMS Magnetic Sensor Manufacturer (Revenue) Market Share in 2025

Figure 36. Top 6 MEMS Magnetic Sensor Manufacturer (Revenue) Market Share in 2025

Figure 37. Global MEMS Magnetic Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 38. Global MEMS Magnetic Sensor Consumption Value Market Share by Region (2021-2032)

Figure 39. North America MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 41. Asia-Pacific MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 42. South America MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 43. Middle East & Africa MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 44. Global MEMS Magnetic Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 45. Global MEMS Magnetic Sensor Consumption Value Market Share by Type (2021-2032)

Figure 46. Global MEMS Magnetic Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 47. Global MEMS Magnetic Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 48. Global MEMS Magnetic Sensor Revenue Market Share by Application (2021-2032)

Figure 49. Global MEMS Magnetic Sensor Average Price by Application (2021-2032) &

(US\$/Unit)

Figure 50. North America MEMS Magnetic Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 51. North America MEMS Magnetic Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 52. North America MEMS Magnetic Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 53. North America MEMS Magnetic Sensor Consumption Value Market Share by Country (2021-2032)

Figure 54. United States MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 55. Canada MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 56. Mexico MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 57. Europe MEMS Magnetic Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 58. Europe MEMS Magnetic Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 59. Europe MEMS Magnetic Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 60. Europe MEMS Magnetic Sensor Consumption Value Market Share by Country (2021-2032)

Figure 61. Germany MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 62. France MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 63. United Kingdom MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 64. Russia MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 65. Italy MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 66. Asia-Pacific MEMS Magnetic Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 67. Asia-Pacific MEMS Magnetic Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 68. Asia-Pacific MEMS Magnetic Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 69. Asia-Pacific MEMS Magnetic Sensor Consumption Value Market Share by Region (2021-2032)

Figure 70. China MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 71. Japan MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 72. South Korea MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 73. India MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 74. Southeast Asia MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 75. Australia MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 76. South America MEMS Magnetic Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 77. South America MEMS Magnetic Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 78. South America MEMS Magnetic Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 79. South America MEMS Magnetic Sensor Consumption Value Market Share by Country (2021-2032)

Figure 80. Brazil MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 81. Argentina MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 82. Middle East & Africa MEMS Magnetic Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 83. Middle East & Africa MEMS Magnetic Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 84. Middle East & Africa MEMS Magnetic Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 85. Middle East & Africa MEMS Magnetic Sensor Consumption Value Market Share by Country (2021-2032)

Figure 86. Turkey MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 87. Egypt MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 88. Saudi Arabia MEMS Magnetic Sensor Consumption Value (2021-2032) &

(USD Million)

Figure 89. South Africa MEMS Magnetic Sensor Consumption Value (2021-2032) & (USD Million)

Figure 90. MEMS Magnetic Sensor Market Drivers

Figure 91. MEMS Magnetic Sensor Market Restraints

Figure 92. MEMS Magnetic Sensor Market Trends

Figure 93. Porters Five Forces Analysis

Figure 94. Manufacturing Cost Structure Analysis of MEMS Magnetic Sensor in 2025

Figure 95. Manufacturing Process Analysis of MEMS Magnetic Sensor

Figure 96. MEMS Magnetic Sensor Industrial Chain

Figure 97. Sales Channel: Direct to End-User vs Distributors

Figure 98. Direct Channel Pros & Cons

Figure 99. Indirect Channel Pros & Cons

Figure 100. Methodology

Figure 101. Research Process and Data Source

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