

# Global Magnetic Current Sensor ICs 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 Sensor ICs market size was valued at US\$ 654 million in 2025 and is forecast to a readjusted size of US\$ 1376 million by 2032 with a CAGR of 11.3% during review period.

Magnetic Current Sensor Chips, also known as Magnetic Current Sensor Integrated Circuits (ICs), are specialized semiconductor devices designed to measure and monitor electric current in conductors using magnetic field sensing principles. These chips employ Hall-effect sensors, magnetoresistive sensors, or other magnetic field-based technologies to detect the presence and magnitude of current flowing through a conductor. By integrating these sensors into compact semiconductor packages, magnetic current sensor chips enable precise current measurement without requiring physical contact with the conductor. They provide a non-invasive and highly reliable method for current sensing, making them valuable components in various applications, including power monitoring, motor control, energy management, and fault detection in electrical systems. Known for their precision, low power consumption, and real-time current measurement capabilities, these chips are essential tools for ensuring the safe and efficient operation of electrical and electronic equipment.

The major manufacturers of Magnetic Current Sensor ICs in the world are located in North America, Europe, China and Japan. Core manufacturers are Allegro Microsystems, Infineon, Melexis, Sinomags Technology and Asahi Kasei Microdevices, and the top five manufacturers account for about 53% of the global share. The main product types are Hall type and xMR, which are mainly used in automotive, industrial, energy and consumer electronics fields.

The growth of the magnetic current sensor IC market is primarily driven by the rapid expansion of electric vehicles (EVs), renewable energy, and industrial automation. The widespread adoption of EVs and charging infrastructure has significantly increased demand for high-precision, reliable current sensing to ensure battery management and motor control safety. Meanwhile, solar inverters and energy storage systems also require more current sensors to improve power conversion efficiency. Additionally, Industry 4.0 is accelerating the upgrade of smart grids and automated equipment, further boosting the adoption of high-performance magnetic current sensor ICs.

Current market trends emphasize higher integration, lower power consumption, and smaller form factors. Many magnetic current sensor ICs now adopt advanced packaging technologies (e.g., SOIC, QFN) to reduce size and enhance noise immunity. Furthermore, TMR (tunnel magnetoresistance) and GMR (giant magnetoresistance)-based chips are gaining traction due to their high sensitivity and low temperature drift. Intelligence is another key trend, with some ICs integrating digital interfaces (e.g., I<sup>2</sup>C, SPI) to enable real-time monitoring and system diagnostics, meeting the demands of IoT and AI-driven energy management systems.

This report is a detailed and comprehensive analysis for global Magnetic Current Sensor ICs 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 Sensor ICs market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

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

Global Magnetic Current Sensor ICs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average

selling prices (US\$/K Units), 2021-2032

Global Magnetic Current Sensor ICs market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/K Units), 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 Sensor ICs

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 Sensor ICs 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, Melexis, Sinomags Technology, Asahi Kasei Microdevices, TDK, Texas Instruments, Novosense Microelectronics, Analog Devices, Senksemi-electronics, etc.

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

### **Market Segmentation**

Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs

xMR Magnetic Current Sensor ICs

Market segment by Application

Automotive

Industrial

Energy

Consumer Electronics

Others

#### Major players covered

Allegro Microsystems

Infineon

Melexis

Sinomags Technology

Asahi Kasei Microdevices

TDK

Texas Instruments

Novosense Microelectronics

Analog Devices

Senksemi-electronics

CrossChip

Cosemitech

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

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

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

Chapter 4, the Magnetic Current Sensor ICs 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 Sensor ICs 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 Sensor ICs.

Chapter 14 and 15, to describe Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Consumption Value by Type: 2021 Versus 2025 Versus 2032
  - 1.3.2 Hall Effect Magnetic Current Sensor ICs
  - 1.3.3 xMR Magnetic Current Sensor ICs
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Magnetic Current Sensor ICs Consumption Value by Application: 2021 Versus 2025 Versus 2032
  - 1.4.2 Automotive
  - 1.4.3 Industrial
  - 1.4.4 Energy
  - 1.4.5 Consumer Electronics
  - 1.4.6 Others
- 1.5 Global Magnetic Current Sensor ICs Market Size & Forecast
  - 1.5.1 Global Magnetic Current Sensor ICs Consumption Value (2021 & 2025 & 2032)
  - 1.5.2 Global Magnetic Current Sensor ICs Sales Quantity (2021-2032)
  - 1.5.3 Global Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Product and Services
  - 2.1.4 Allegro Microsystems Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.1.5 Allegro Microsystems Recent Developments/Updates
- 2.2 Infineon
  - 2.2.1 Infineon Details
  - 2.2.2 Infineon Major Business
  - 2.2.3 Infineon Magnetic Current Sensor ICs Product and Services
  - 2.2.4 Infineon Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.2.5 Infineon Recent Developments/Updates
- 2.3 Melexis
  - 2.3.1 Melexis Details
  - 2.3.2 Melexis Major Business
  - 2.3.3 Melexis Magnetic Current Sensor ICs Product and Services
  - 2.3.4 Melexis Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Melexis Recent Developments/Updates
- 2.4 Sinomags Technology
  - 2.4.1 Sinomags Technology Details
  - 2.4.2 Sinomags Technology Major Business
  - 2.4.3 Sinomags Technology Magnetic Current Sensor ICs Product and Services
  - 2.4.4 Sinomags Technology Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Sinomags Technology Recent Developments/Updates
- 2.5 Asahi Kasei Microdevices
  - 2.5.1 Asahi Kasei Microdevices Details
  - 2.5.2 Asahi Kasei Microdevices Major Business
  - 2.5.3 Asahi Kasei Microdevices Magnetic Current Sensor ICs Product and Services
  - 2.5.4 Asahi Kasei Microdevices Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Asahi Kasei Microdevices Recent Developments/Updates
- 2.6 TDK
  - 2.6.1 TDK Details
  - 2.6.2 TDK Major Business
  - 2.6.3 TDK Magnetic Current Sensor ICs Product and Services
  - 2.6.4 TDK Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.6.5 TDK Recent Developments/Updates
- 2.7 Texas Instruments
  - 2.7.1 Texas Instruments Details
  - 2.7.2 Texas Instruments Major Business
  - 2.7.3 Texas Instruments Magnetic Current Sensor ICs Product and Services
  - 2.7.4 Texas Instruments Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Texas Instruments Recent Developments/Updates
- 2.8 Novosense Microelectronics
  - 2.8.1 Novosense Microelectronics Details
  - 2.8.2 Novosense Microelectronics Major Business

- 2.8.3 Novosense Microelectronics Magnetic Current Sensor ICs Product and Services
- 2.8.4 Novosense Microelectronics Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.8.5 Novosense Microelectronics Recent Developments/Updates
- 2.9 Analog Devices
  - 2.9.1 Analog Devices Details
  - 2.9.2 Analog Devices Major Business
  - 2.9.3 Analog Devices Magnetic Current Sensor ICs Product and Services
  - 2.9.4 Analog Devices Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Analog Devices Recent Developments/Updates
- 2.10 Senksemi-electronics
  - 2.10.1 Senksemi-electronics Details
  - 2.10.2 Senksemi-electronics Major Business
  - 2.10.3 Senksemi-electronics Magnetic Current Sensor ICs Product and Services
  - 2.10.4 Senksemi-electronics Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 Senksemi-electronics Recent Developments/Updates
- 2.11 CrossChip
  - 2.11.1 CrossChip Details
  - 2.11.2 CrossChip Major Business
  - 2.11.3 CrossChip Magnetic Current Sensor ICs Product and Services
  - 2.11.4 CrossChip Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.11.5 CrossChip Recent Developments/Updates
- 2.12 Cosemitech
  - 2.12.1 Cosemitech Details
  - 2.12.2 Cosemitech Major Business
  - 2.12.3 Cosemitech Magnetic Current Sensor ICs Product and Services
  - 2.12.4 Cosemitech Magnetic Current Sensor ICs Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.12.5 Cosemitech Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: MAGNETIC CURRENT SENSOR ICs BY MANUFACTURER**

- 3.1 Global Magnetic Current Sensor ICs Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Magnetic Current Sensor ICs Revenue by Manufacturer (2021-2026)
- 3.3 Global Magnetic Current Sensor ICs Average Price by Manufacturer (2021-2026)

### 3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Magnetic Current Sensor ICs by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Magnetic Current Sensor ICs Manufacturer Market Share in 2025

3.4.3 Top 6 Magnetic Current Sensor ICs Manufacturer Market Share in 2025

### 3.5 Magnetic Current Sensor ICs Market: Overall Company Footprint Analysis

3.5.1 Magnetic Current Sensor ICs Market: Region Footprint

3.5.2 Magnetic Current Sensor ICs Market: Company Product Type Footprint

3.5.3 Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Market Size by Region

4.1.1 Global Magnetic Current Sensor ICs Sales Quantity by Region (2021-2032)

4.1.2 Global Magnetic Current Sensor ICs Consumption Value by Region (2021-2032)

4.1.3 Global Magnetic Current Sensor ICs Average Price by Region (2021-2032)

### 4.2 North America Magnetic Current Sensor ICs Consumption Value (2021-2032)

### 4.3 Europe Magnetic Current Sensor ICs Consumption Value (2021-2032)

### 4.4 Asia-Pacific Magnetic Current Sensor ICs Consumption Value (2021-2032)

### 4.5 South America Magnetic Current Sensor ICs Consumption Value (2021-2032)

### 4.6 Middle East & Africa Magnetic Current Sensor ICs Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

### 5.1 Global Magnetic Current Sensor ICs Sales Quantity by Type (2021-2032)

### 5.2 Global Magnetic Current Sensor ICs Consumption Value by Type (2021-2032)

### 5.3 Global Magnetic Current Sensor ICs Average Price by Type (2021-2032)

## 6 MARKET SEGMENT BY APPLICATION

### 6.1 Global Magnetic Current Sensor ICs Sales Quantity by Application (2021-2032)

### 6.2 Global Magnetic Current Sensor ICs Consumption Value by Application (2021-2032)

### 6.3 Global Magnetic Current Sensor ICs Average Price by Application (2021-2032)

## 7 NORTH AMERICA

### 7.1 North America Magnetic Current Sensor ICs Sales Quantity by Type (2021-2032)

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

7.3 North America Magnetic Current Sensor ICs Market Size by Country

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

7.3.2 North America Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Sales Quantity by Type (2021-2032)

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

8.3 Europe Magnetic Current Sensor ICs Market Size by Country

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

8.3.2 Europe Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Sales Quantity by Type (2021-2032)

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

9.3 Asia-Pacific Magnetic Current Sensor ICs Market Size by Region

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

9.3.2 Asia-Pacific Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Sales Quantity by Type (2021-2032)

### 10.2 South America Magnetic Current Sensor ICs Sales Quantity by Application (2021-2032)

### 10.3 South America Magnetic Current Sensor ICs Market Size by Country

#### 10.3.1 South America Magnetic Current Sensor ICs Sales Quantity by Country (2021-2032)

#### 10.3.2 South America Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Sales Quantity by Type (2021-2032)

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

### 11.3 Middle East & Africa Magnetic Current Sensor ICs Market Size by Country

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

#### 11.3.2 Middle East & Africa Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Market Drivers

### 12.2 Magnetic Current Sensor ICs Market Restraints

### 12.3 Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs and Key Manufacturers

13.2 Manufacturing Costs Percentage of Magnetic Current Sensor ICs

13.3 Magnetic Current Sensor ICs 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 Magnetic Current Sensor ICs Typical Distributors

14.3 Magnetic Current Sensor ICs Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Figures

### LIST OF FIGURES

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

Table 2. Global Magnetic Current Sensor ICs Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Allegro Microsystems Basic Information, Manufacturing Base and Competitors

Table 4. Allegro Microsystems Major Business

Table 5. Allegro Microsystems Magnetic Current Sensor ICs Product and Services

Table 6. Allegro Microsystems Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Allegro Microsystems Recent Developments/Updates

Table 8. Infineon Basic Information, Manufacturing Base and Competitors

Table 9. Infineon Major Business

Table 10. Infineon Magnetic Current Sensor ICs Product and Services

Table 11. Infineon Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Infineon Recent Developments/Updates

Table 13. Melexis Basic Information, Manufacturing Base and Competitors

Table 14. Melexis Major Business

Table 15. Melexis Magnetic Current Sensor ICs Product and Services

Table 16. Melexis Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Melexis Recent Developments/Updates

Table 18. Sinomags Technology Basic Information, Manufacturing Base and Competitors

Table 19. Sinomags Technology Major Business

Table 20. Sinomags Technology Magnetic Current Sensor ICs Product and Services

Table 21. Sinomags Technology Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Sinomags Technology Recent Developments/Updates

Table 23. Asahi Kasei Microdevices Basic Information, Manufacturing Base and Competitors

Table 24. Asahi Kasei Microdevices Major Business

Table 25. Asahi Kasei Microdevices Magnetic Current Sensor ICs Product and Services

Table 26. Asahi Kasei Microdevices Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Asahi Kasei Microdevices Recent Developments/Updates

Table 28. TDK Basic Information, Manufacturing Base and Competitors

Table 29. TDK Major Business

Table 30. TDK Magnetic Current Sensor ICs Product and Services

Table 31. TDK Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. TDK Recent Developments/Updates

Table 33. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 34. Texas Instruments Major Business

Table 35. Texas Instruments Magnetic Current Sensor ICs Product and Services

Table 36. Texas Instruments Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Texas Instruments Recent Developments/Updates

Table 38. Novosense Microelectronics Basic Information, Manufacturing Base and Competitors

Table 39. Novosense Microelectronics Major Business

Table 40. Novosense Microelectronics Magnetic Current Sensor ICs Product and Services

Table 41. Novosense Microelectronics Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. Novosense Microelectronics Recent Developments/Updates

Table 43. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 44. Analog Devices Major Business

Table 45. Analog Devices Magnetic Current Sensor ICs Product and Services

Table 46. Analog Devices Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Analog Devices Recent Developments/Updates

Table 48. Senksemi-electronics Basic Information, Manufacturing Base and Competitors

Table 49. Senksemi-electronics Major Business

- Table 50. Senksemi-electronics Magnetic Current Sensor ICs Product and Services
- Table 51. Senksemi-electronics Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 52. Senksemi-electronics Recent Developments/Updates
- Table 53. CrossChip Basic Information, Manufacturing Base and Competitors
- Table 54. CrossChip Major Business
- Table 55. CrossChip Magnetic Current Sensor ICs Product and Services
- Table 56. CrossChip Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 57. CrossChip Recent Developments/Updates
- Table 58. Cosemitech Basic Information, Manufacturing Base and Competitors
- Table 59. Cosemitech Major Business
- Table 60. Cosemitech Magnetic Current Sensor ICs Product and Services
- Table 61. Cosemitech Magnetic Current Sensor ICs Sales Quantity (Million Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 62. Cosemitech Recent Developments/Updates
- Table 63. Global Magnetic Current Sensor ICs Sales Quantity by Manufacturer (2021-2026) & (Million Units)
- Table 64. Global Magnetic Current Sensor ICs Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 65. Global Magnetic Current Sensor ICs Average Price by Manufacturer (2021-2026) & (US\$/K Units)
- Table 66. Market Position of Manufacturers in Magnetic Current Sensor ICs, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 67. Head Office and Magnetic Current Sensor ICs Production Site of Key Manufacturer
- Table 68. Magnetic Current Sensor ICs Market: Company Product Type Footprint
- Table 69. Magnetic Current Sensor ICs Market: Company Product Application Footprint
- Table 70. Magnetic Current Sensor ICs New Market Entrants and Barriers to Market Entry
- Table 71. Magnetic Current Sensor ICs Mergers, Acquisition, Agreements, and Collaborations
- Table 72. Global Magnetic Current Sensor ICs Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 73. Global Magnetic Current Sensor ICs Sales Quantity by Region (2021-2026) & (Million Units)

Table 74. Global Magnetic Current Sensor ICs Sales Quantity by Region (2027-2032) & (Million Units)

Table 75. Global Magnetic Current Sensor ICs Consumption Value by Region (2021-2026) & (USD Million)

Table 76. Global Magnetic Current Sensor ICs Consumption Value by Region (2027-2032) & (USD Million)

Table 77. Global Magnetic Current Sensor ICs Average Price by Region (2021-2026) & (US\$/K Units)

Table 78. Global Magnetic Current Sensor ICs Average Price by Region (2027-2032) & (US\$/K Units)

Table 79. Global Magnetic Current Sensor ICs Sales Quantity by Type (2021-2026) & (Million Units)

Table 80. Global Magnetic Current Sensor ICs Sales Quantity by Type (2027-2032) & (Million Units)

Table 81. Global Magnetic Current Sensor ICs Consumption Value by Type (2021-2026) & (USD Million)

Table 82. Global Magnetic Current Sensor ICs Consumption Value by Type (2027-2032) & (USD Million)

Table 83. Global Magnetic Current Sensor ICs Average Price by Type (2021-2026) & (US\$/K Units)

Table 84. Global Magnetic Current Sensor ICs Average Price by Type (2027-2032) & (US\$/K Units)

Table 85. Global Magnetic Current Sensor ICs Sales Quantity by Application (2021-2026) & (Million Units)

Table 86. Global Magnetic Current Sensor ICs Sales Quantity by Application (2027-2032) & (Million Units)

Table 87. Global Magnetic Current Sensor ICs Consumption Value by Application (2021-2026) & (USD Million)

Table 88. Global Magnetic Current Sensor ICs Consumption Value by Application (2027-2032) & (USD Million)

Table 89. Global Magnetic Current Sensor ICs Average Price by Application (2021-2026) & (US\$/K Units)

Table 90. Global Magnetic Current Sensor ICs Average Price by Application (2027-2032) & (US\$/K Units)

Table 91. North America Magnetic Current Sensor ICs Sales Quantity by Type (2021-2026) & (Million Units)

Table 92. North America Magnetic Current Sensor ICs Sales Quantity by Type (2027-2032) & (Million Units)

Table 93. North America Magnetic Current Sensor ICs Sales Quantity by Application

(2021-2026) & (Million Units)

Table 94. North America Magnetic Current Sensor ICs Sales Quantity by Application (2027-2032) & (Million Units)

Table 95. North America Magnetic Current Sensor ICs Sales Quantity by Country (2021-2026) & (Million Units)

Table 96. North America Magnetic Current Sensor ICs Sales Quantity by Country (2027-2032) & (Million Units)

Table 97. North America Magnetic Current Sensor ICs Consumption Value by Country (2021-2026) & (USD Million)

Table 98. North America Magnetic Current Sensor ICs Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Europe Magnetic Current Sensor ICs Sales Quantity by Type (2021-2026) & (Million Units)

Table 100. Europe Magnetic Current Sensor ICs Sales Quantity by Type (2027-2032) & (Million Units)

Table 101. Europe Magnetic Current Sensor ICs Sales Quantity by Application (2021-2026) & (Million Units)

Table 102. Europe Magnetic Current Sensor ICs Sales Quantity by Application (2027-2032) & (Million Units)

Table 103. Europe Magnetic Current Sensor ICs Sales Quantity by Country (2021-2026) & (Million Units)

Table 104. Europe Magnetic Current Sensor ICs Sales Quantity by Country (2027-2032) & (Million Units)

Table 105. Europe Magnetic Current Sensor ICs Consumption Value by Country (2021-2026) & (USD Million)

Table 106. Europe Magnetic Current Sensor ICs Consumption Value by Country (2027-2032) & (USD Million)

Table 107. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity by Type (2021-2026) & (Million Units)

Table 108. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity by Type (2027-2032) & (Million Units)

Table 109. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity by Application (2021-2026) & (Million Units)

Table 110. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity by Application (2027-2032) & (Million Units)

Table 111. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity by Region (2021-2026) & (Million Units)

Table 112. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity by Region (2027-2032) & (Million Units)

Table 113. Asia-Pacific Magnetic Current Sensor ICs Consumption Value by Region (2021-2026) & (USD Million)

Table 114. Asia-Pacific Magnetic Current Sensor ICs Consumption Value by Region (2027-2032) & (USD Million)

Table 115. South America Magnetic Current Sensor ICs Sales Quantity by Type (2021-2026) & (Million Units)

Table 116. South America Magnetic Current Sensor ICs Sales Quantity by Type (2027-2032) & (Million Units)

Table 117. South America Magnetic Current Sensor ICs Sales Quantity by Application (2021-2026) & (Million Units)

Table 118. South America Magnetic Current Sensor ICs Sales Quantity by Application (2027-2032) & (Million Units)

Table 119. South America Magnetic Current Sensor ICs Sales Quantity by Country (2021-2026) & (Million Units)

Table 120. South America Magnetic Current Sensor ICs Sales Quantity by Country (2027-2032) & (Million Units)

Table 121. South America Magnetic Current Sensor ICs Consumption Value by Country (2021-2026) & (USD Million)

Table 122. South America Magnetic Current Sensor ICs Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity by Type (2021-2026) & (Million Units)

Table 124. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity by Type (2027-2032) & (Million Units)

Table 125. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity by Application (2021-2026) & (Million Units)

Table 126. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity by Application (2027-2032) & (Million Units)

Table 127. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity by Country (2021-2026) & (Million Units)

Table 128. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity by Country (2027-2032) & (Million Units)

Table 129. Middle East & Africa Magnetic Current Sensor ICs Consumption Value by Country (2021-2026) & (USD Million)

Table 130. Middle East & Africa Magnetic Current Sensor ICs Consumption Value by Country (2027-2032) & (USD Million)

Table 131. Magnetic Current Sensor ICs Raw Material

Table 132. Key Manufacturers of Magnetic Current Sensor ICs Raw Materials

Table 133. Magnetic Current Sensor ICs Typical Distributors

Table 134. Magnetic Current Sensor ICs Typical Customers

**LIST OF FIGURES**

Figure 1. Magnetic Current Sensor ICs Picture

Figure 2. Global Magnetic Current Sensor ICs Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Magnetic Current Sensor ICs Revenue Market Share by Type in 2025

Figure 4. Hall Effect Magnetic Current Sensor ICs Examples

Figure 5. xMR Magnetic Current Sensor ICs Examples

Figure 6. Global Magnetic Current Sensor ICs Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Magnetic Current Sensor ICs Revenue Market Share by Application in 2025

Figure 8. Automotive Examples

Figure 9. Industrial Examples

Figure 10. Energy Examples

Figure 11. Consumer Electronics Examples

Figure 12. Others Examples

Figure 13. Global Magnetic Current Sensor ICs Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 14. Global Magnetic Current Sensor ICs Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 15. Global Magnetic Current Sensor ICs Sales Quantity (2021-2032) & (Million Units)

Figure 16. Global Magnetic Current Sensor ICs Price (2021-2032) & (US\$/K Units)

Figure 17. Global Magnetic Current Sensor ICs Sales Quantity Market Share by Manufacturer in 2025

Figure 18. Global Magnetic Current Sensor ICs Revenue Market Share by Manufacturer in 2025

Figure 19. Producer Shipments of Magnetic Current Sensor ICs by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 20. Top 3 Magnetic Current Sensor ICs Manufacturer (Revenue) Market Share in 2025

Figure 21. Top 6 Magnetic Current Sensor ICs Manufacturer (Revenue) Market Share in 2025

Figure 22. Global Magnetic Current Sensor ICs Sales Quantity Market Share by Region (2021-2032)

Figure 23. Global Magnetic Current Sensor ICs Consumption Value Market Share by

Region (2021-2032)

Figure 24. North America Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 25. Europe Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 26. Asia-Pacific Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 27. South America Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 28. Middle East & Africa Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 29. Global Magnetic Current Sensor ICs Sales Quantity Market Share by Type (2021-2032)

Figure 30. Global Magnetic Current Sensor ICs Consumption Value Market Share by Type (2021-2032)

Figure 31. Global Magnetic Current Sensor ICs Average Price by Type (2021-2032) & (US\$/K Units)

Figure 32. Global Magnetic Current Sensor ICs Sales Quantity Market Share by Application (2021-2032)

Figure 33. Global Magnetic Current Sensor ICs Revenue Market Share by Application (2021-2032)

Figure 34. Global Magnetic Current Sensor ICs Average Price by Application (2021-2032) & (US\$/K Units)

Figure 35. North America Magnetic Current Sensor ICs Sales Quantity Market Share by Type (2021-2032)

Figure 36. North America Magnetic Current Sensor ICs Sales Quantity Market Share by Application (2021-2032)

Figure 37. North America Magnetic Current Sensor ICs Sales Quantity Market Share by Country (2021-2032)

Figure 38. North America Magnetic Current Sensor ICs Consumption Value Market Share by Country (2021-2032)

Figure 39. United States Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 40. Canada Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 41. Mexico Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 42. Europe Magnetic Current Sensor ICs Sales Quantity Market Share by Type (2021-2032)

Figure 43. Europe Magnetic Current Sensor ICs Sales Quantity Market Share by Application (2021-2032)

Figure 44. Europe Magnetic Current Sensor ICs Sales Quantity Market Share by Country (2021-2032)

Figure 45. Europe Magnetic Current Sensor ICs Consumption Value Market Share by Country (2021-2032)

Figure 46. Germany Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 47. France Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 48. United Kingdom Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 49. Russia Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 50. Italy Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 51. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity Market Share by Type (2021-2032)

Figure 52. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity Market Share by Application (2021-2032)

Figure 53. Asia-Pacific Magnetic Current Sensor ICs Sales Quantity Market Share by Region (2021-2032)

Figure 54. Asia-Pacific Magnetic Current Sensor ICs Consumption Value Market Share by Region (2021-2032)

Figure 55. China Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 56. Japan Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 57. South Korea Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 58. India Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 59. Southeast Asia Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 60. Australia Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 61. South America Magnetic Current Sensor ICs Sales Quantity Market Share by Type (2021-2032)

Figure 62. South America Magnetic Current Sensor ICs Sales Quantity Market Share by

Application (2021-2032)

Figure 63. South America Magnetic Current Sensor ICs Sales Quantity Market Share by Country (2021-2032)

Figure 64. South America Magnetic Current Sensor ICs Consumption Value Market Share by Country (2021-2032)

Figure 65. Brazil Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 66. Argentina Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 67. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity Market Share by Type (2021-2032)

Figure 68. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity Market Share by Application (2021-2032)

Figure 69. Middle East & Africa Magnetic Current Sensor ICs Sales Quantity Market Share by Country (2021-2032)

Figure 70. Middle East & Africa Magnetic Current Sensor ICs Consumption Value Market Share by Country (2021-2032)

Figure 71. Turkey Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 72. Egypt Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 73. Saudi Arabia Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 74. South Africa Magnetic Current Sensor ICs Consumption Value (2021-2032) & (USD Million)

Figure 75. Magnetic Current Sensor ICs Market Drivers

Figure 76. Magnetic Current Sensor ICs Market Restraints

Figure 77. Magnetic Current Sensor ICs Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Magnetic Current Sensor ICs in 2025

Figure 80. Manufacturing Process Analysis of Magnetic Current Sensor ICs

Figure 81. Magnetic Current Sensor ICs Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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