

Global Current Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/C23F3B70D6F4EN.html>

Date: July 2025

Pages: 137

Price: US\$ 3,480.00 (Single User License)

ID: C23F3B70D6F4EN

Abstracts

According to our (Global Info Research) latest study, the global Current Sensors market size was valued at US\$ 4027 million in 2024 and is forecast to a readjusted size of USD 7316 million by 2031 with a CAGR of 9.0% during review period.

A current sensor is a resistive device employed to sense levels of current. Current sensors are used in applications where the emphasis is on accuracy and repeatability under all conditions and less on high current capability. Applications such as force-balance scales, E beam deflection systems, and switching power supplies, all rely on current sensors to feed back and control the current.

The current sensor industry is experiencing rapid growth driven by several key market dynamics. One of the main factors fueling this growth is the increasing demand for energy efficiency and the integration of renewable energy sources. As industries and consumers focus on optimizing energy use and reducing consumption, current sensors are becoming essential tools in energy management systems. These sensors enable real-time monitoring of electrical loads, helping to identify inefficiencies and support smarter energy usage. Furthermore, the growing emphasis on renewable energy, particularly solar and wind power, is further increasing the need for current sensors. These sensors are critical in managing the flow of electricity from renewable sources to the grid and in optimizing energy storage solutions, such as batteries. Additionally, the rise of electric vehicles (EVs) is creating new opportunities for current sensors, particularly in battery management systems (BMS). As EV adoption grows, accurate current sensing is essential for monitoring battery performance, ensuring safe charging and discharging cycles, and extending battery life. The increasing demand for automation, smart grids, and IoT-enabled devices across sectors such as automotive,

industrial, and consumer electronics is also driving the market. Current sensors enable precise measurements, improving the performance and reliability of these systems. Overall, the current sensor industry is poised for sustained growth as technological innovations continue to advance and energy demands evolve.

Global key players of Current Sensors include Asahi Kasei Microdevices, Allegro Microsystems, Melexis, TDK Micronas, LEM Holding, etc. The top five players hold a share about 52%. Europe is the largest market, and has a share about 28%, followed by North America and China with share 24% and 20%, separately. In terms of product type, Hall Effect Current Sensor is the largest segment, occupied for a share of 63%. In terms of application, Industrial has a share about 48 percent.

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

Key Features:

Global Current Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global Current Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global Current Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global Current Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (US\$/K Units), 2020-2025

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 Current Sensors
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Current Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Asahi Kasei Microdevices, Allegro Microsystems, Melexis, TDK Micronas, LEM Holding, Infineon, Honeywell, Sinomags, Kohshin Electric Corporation, Pulse Electronics Corporation, etc.

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

Market Segmentation

Current Sensors market is split by Type and by Application. For the period 2020-2031, 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 Current Sensor

Shunt Based Current Sensor

xMR Current Sensor

Others

Market segment by Application

Industrial

Automotive

Commercial

Others

Major players covered

Asahi Kasei Microdevices

Allegro Microsystems

Melexis

TDK Micronas

LEM Holding

Infineon

Honeywell

Sinomags

Kohshin Electric Corporation

Pulse Electronics Corporation

Robert Bosch

DENSO

Tamura

Texas Instruments

Continental

Nicera

BYD

MultiDimension Technology

CRRC

Magtron Intelligent

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 Current Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Current Sensors, with price, sales quantity, revenue, and global market share of Current Sensors from 2020 to 2025.

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

Chapter 4, the Current Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Current Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Current Sensors.

Chapter 14 and 15, to describe Current Sensors 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 Current Sensors Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Hall Effect Current Sensor

1.3.3 Shunt Based Current Sensor

1.3.4 xMR Current Sensor

1.3.5 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Current Sensors Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Industrial

1.4.3 Automotive

1.4.4 Commercial

1.4.5 Others

1.5 Global Current Sensors Market Size & Forecast

1.5.1 Global Current Sensors Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Current Sensors Sales Quantity (2020-2031)

1.5.3 Global Current Sensors Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Asahi Kasei Microdevices

2.1.1 Asahi Kasei Microdevices Details

2.1.2 Asahi Kasei Microdevices Major Business

2.1.3 Asahi Kasei Microdevices Current Sensors Product and Services

2.1.4 Asahi Kasei Microdevices Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Asahi Kasei Microdevices Recent Developments/Updates

2.2 Allegro Microsystems

2.2.1 Allegro Microsystems Details

2.2.2 Allegro Microsystems Major Business

2.2.3 Allegro Microsystems Current Sensors Product and Services

2.2.4 Allegro Microsystems Current Sensors Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2020-2025)

2.2.5 Allegro Microsystems Recent Developments/Updates

2.3 Melexis

2.3.1 Melexis Details

2.3.2 Melexis Major Business

2.3.3 Melexis Current Sensors Product and Services

2.3.4 Melexis Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Melexis Recent Developments/Updates

2.4 TDK Micronas

2.4.1 TDK Micronas Details

2.4.2 TDK Micronas Major Business

2.4.3 TDK Micronas Current Sensors Product and Services

2.4.4 TDK Micronas Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 TDK Micronas Recent Developments/Updates

2.5 LEM Holding

2.5.1 LEM Holding Details

2.5.2 LEM Holding Major Business

2.5.3 LEM Holding Current Sensors Product and Services

2.5.4 LEM Holding Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 LEM Holding Recent Developments/Updates

2.6 Infineon

2.6.1 Infineon Details

2.6.2 Infineon Major Business

2.6.3 Infineon Current Sensors Product and Services

2.6.4 Infineon Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Infineon Recent Developments/Updates

2.7 Honeywell

2.7.1 Honeywell Details

2.7.2 Honeywell Major Business

2.7.3 Honeywell Current Sensors Product and Services

2.7.4 Honeywell Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Honeywell Recent Developments/Updates

2.8 Sinomags

2.8.1 Sinomags Details

- 2.8.2 Sinomags Major Business
- 2.8.3 Sinomags Current Sensors Product and Services
- 2.8.4 Sinomags Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Sinomags Recent Developments/Updates
- 2.9 Kohshin Electric Corporation
 - 2.9.1 Kohshin Electric Corporation Details
 - 2.9.2 Kohshin Electric Corporation Major Business
 - 2.9.3 Kohshin Electric Corporation Current Sensors Product and Services
 - 2.9.4 Kohshin Electric Corporation Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Kohshin Electric Corporation Recent Developments/Updates
- 2.10 Pulse Electronics Corporation
 - 2.10.1 Pulse Electronics Corporation Details
 - 2.10.2 Pulse Electronics Corporation Major Business
 - 2.10.3 Pulse Electronics Corporation Current Sensors Product and Services
 - 2.10.4 Pulse Electronics Corporation Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Pulse Electronics Corporation Recent Developments/Updates
- 2.11 Robert Bosch
 - 2.11.1 Robert Bosch Details
 - 2.11.2 Robert Bosch Major Business
 - 2.11.3 Robert Bosch Current Sensors Product and Services
 - 2.11.4 Robert Bosch Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Robert Bosch Recent Developments/Updates
- 2.12 DENSO
 - 2.12.1 DENSO Details
 - 2.12.2 DENSO Major Business
 - 2.12.3 DENSO Current Sensors Product and Services
 - 2.12.4 DENSO Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 DENSO Recent Developments/Updates
- 2.13 Tamura
 - 2.13.1 Tamura Details
 - 2.13.2 Tamura Major Business
 - 2.13.3 Tamura Current Sensors Product and Services
 - 2.13.4 Tamura Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.13.5 Tamura Recent Developments/Updates
- 2.14 Texas Instruments
 - 2.14.1 Texas Instruments Details
 - 2.14.2 Texas Instruments Major Business
 - 2.14.3 Texas Instruments Current Sensors Product and Services
 - 2.14.4 Texas Instruments Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.14.5 Texas Instruments Recent Developments/Updates
- 2.15 Continental
 - 2.15.1 Continental Details
 - 2.15.2 Continental Major Business
 - 2.15.3 Continental Current Sensors Product and Services
 - 2.15.4 Continental Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.15.5 Continental Recent Developments/Updates
- 2.16 Nicera
 - 2.16.1 Nicera Details
 - 2.16.2 Nicera Major Business
 - 2.16.3 Nicera Current Sensors Product and Services
 - 2.16.4 Nicera Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.16.5 Nicera Recent Developments/Updates
- 2.17 BYD
 - 2.17.1 BYD Details
 - 2.17.2 BYD Major Business
 - 2.17.3 BYD Current Sensors Product and Services
 - 2.17.4 BYD Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.17.5 BYD Recent Developments/Updates
- 2.18 MultiDimension Technology
 - 2.18.1 MultiDimension Technology Details
 - 2.18.2 MultiDimension Technology Major Business
 - 2.18.3 MultiDimension Technology Current Sensors Product and Services
 - 2.18.4 MultiDimension Technology Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.18.5 MultiDimension Technology Recent Developments/Updates
- 2.19 CRRC
 - 2.19.1 CRRC Details
 - 2.19.2 CRRC Major Business

- 2.19.3 CRRC Current Sensors Product and Services
- 2.19.4 CRRC Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.19.5 CRRC Recent Developments/Updates
- 2.20 Magtron Intelligent
 - 2.20.1 Magtron Intelligent Details
 - 2.20.2 Magtron Intelligent Major Business
 - 2.20.3 Magtron Intelligent Current Sensors Product and Services
 - 2.20.4 Magtron Intelligent Current Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.20.5 Magtron Intelligent Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CURRENT SENSORS BY MANUFACTURER

- 3.1 Global Current Sensors Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Current Sensors Revenue by Manufacturer (2020-2025)
- 3.3 Global Current Sensors Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Current Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Current Sensors Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Current Sensors Manufacturer Market Share in 2024
- 3.5 Current Sensors Market: Overall Company Footprint Analysis
 - 3.5.1 Current Sensors Market: Region Footprint
 - 3.5.2 Current Sensors Market: Company Product Type Footprint
 - 3.5.3 Current Sensors 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 Current Sensors Market Size by Region
 - 4.1.1 Global Current Sensors Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Current Sensors Consumption Value by Region (2020-2031)
 - 4.1.3 Global Current Sensors Average Price by Region (2020-2031)
- 4.2 North America Current Sensors Consumption Value (2020-2031)
- 4.3 Europe Current Sensors Consumption Value (2020-2031)
- 4.4 Asia-Pacific Current Sensors Consumption Value (2020-2031)
- 4.5 South America Current Sensors Consumption Value (2020-2031)

4.6 Middle East & Africa Current Sensors Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Current Sensors Sales Quantity by Type (2020-2031)

5.2 Global Current Sensors Consumption Value by Type (2020-2031)

5.3 Global Current Sensors Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Current Sensors Sales Quantity by Application (2020-2031)

6.2 Global Current Sensors Consumption Value by Application (2020-2031)

6.3 Global Current Sensors Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Current Sensors Sales Quantity by Type (2020-2031)

7.2 North America Current Sensors Sales Quantity by Application (2020-2031)

7.3 North America Current Sensors Market Size by Country

7.3.1 North America Current Sensors Sales Quantity by Country (2020-2031)

7.3.2 North America Current Sensors Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Current Sensors Sales Quantity by Type (2020-2031)

8.2 Europe Current Sensors Sales Quantity by Application (2020-2031)

8.3 Europe Current Sensors Market Size by Country

8.3.1 Europe Current Sensors Sales Quantity by Country (2020-2031)

8.3.2 Europe Current Sensors Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Current Sensors Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Current Sensors Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Current Sensors Market Size by Region
 - 9.3.1 Asia-Pacific Current Sensors Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Current Sensors Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Current Sensors Sales Quantity by Type (2020-2031)
- 10.2 South America Current Sensors Sales Quantity by Application (2020-2031)
- 10.3 South America Current Sensors Market Size by Country
 - 10.3.1 South America Current Sensors Sales Quantity by Country (2020-2031)
 - 10.3.2 South America Current Sensors Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Current Sensors Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa Current Sensors Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa Current Sensors Market Size by Country
 - 11.3.1 Middle East & Africa Current Sensors Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa Current Sensors Consumption Value by Country (2020-2031)
 - 11.3.3 Turkey Market Size and Forecast (2020-2031)
 - 11.3.4 Egypt Market Size and Forecast (2020-2031)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
 - 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Current Sensors Market Drivers

12.2 Current Sensors Market Restraints

12.3 Current Sensors 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 Current Sensors and Key Manufacturers

13.2 Manufacturing Costs Percentage of Current Sensors

13.3 Current Sensors 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 Current Sensors Typical Distributors

14.3 Current Sensors 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 Current Sensors Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Current Sensors Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Asahi Kasei Microdevices Basic Information, Manufacturing Base and Competitors

Table 4. Asahi Kasei Microdevices Major Business

Table 5. Asahi Kasei Microdevices Current Sensors Product and Services

Table 6. Asahi Kasei Microdevices Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Asahi Kasei Microdevices Recent Developments/Updates

Table 8. Allegro Microsystems Basic Information, Manufacturing Base and Competitors

Table 9. Allegro Microsystems Major Business

Table 10. Allegro Microsystems Current Sensors Product and Services

Table 11. Allegro Microsystems Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Allegro Microsystems Recent Developments/Updates

Table 13. Melexis Basic Information, Manufacturing Base and Competitors

Table 14. Melexis Major Business

Table 15. Melexis Current Sensors Product and Services

Table 16. Melexis Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Melexis Recent Developments/Updates

Table 18. TDK Micronas Basic Information, Manufacturing Base and Competitors

Table 19. TDK Micronas Major Business

Table 20. TDK Micronas Current Sensors Product and Services

Table 21. TDK Micronas Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. TDK Micronas Recent Developments/Updates

Table 23. LEM Holding Basic Information, Manufacturing Base and Competitors

Table 24. LEM Holding Major Business

Table 25. LEM Holding Current Sensors Product and Services

Table 26. LEM Holding Current Sensors Sales Quantity (M Units), Average Price

(US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. LEM Holding Recent Developments/Updates

Table 28. Infineon Basic Information, Manufacturing Base and Competitors

Table 29. Infineon Major Business

Table 30. Infineon Current Sensors Product and Services

Table 31. Infineon Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Infineon Recent Developments/Updates

Table 33. Honeywell Basic Information, Manufacturing Base and Competitors

Table 34. Honeywell Major Business

Table 35. Honeywell Current Sensors Product and Services

Table 36. Honeywell Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Honeywell Recent Developments/Updates

Table 38. Sinomags Basic Information, Manufacturing Base and Competitors

Table 39. Sinomags Major Business

Table 40. Sinomags Current Sensors Product and Services

Table 41. Sinomags Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Sinomags Recent Developments/Updates

Table 43. Kohshin Electric Corporation Basic Information, Manufacturing Base and Competitors

Table 44. Kohshin Electric Corporation Major Business

Table 45. Kohshin Electric Corporation Current Sensors Product and Services

Table 46. Kohshin Electric Corporation Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Kohshin Electric Corporation Recent Developments/Updates

Table 48. Pulse Electronics Corporation Basic Information, Manufacturing Base and Competitors

Table 49. Pulse Electronics Corporation Major Business

Table 50. Pulse Electronics Corporation Current Sensors Product and Services

Table 51. Pulse Electronics Corporation Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Pulse Electronics Corporation Recent Developments/Updates

Table 53. Robert Bosch Basic Information, Manufacturing Base and Competitors

Table 54. Robert Bosch Major Business

Table 55. Robert Bosch Current Sensors Product and Services

Table 56. Robert Bosch Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Robert Bosch Recent Developments/Updates

Table 58. DENSO Basic Information, Manufacturing Base and Competitors

Table 59. DENSO Major Business

Table 60. DENSO Current Sensors Product and Services

Table 61. DENSO Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. DENSO Recent Developments/Updates

Table 63. Tamura Basic Information, Manufacturing Base and Competitors

Table 64. Tamura Major Business

Table 65. Tamura Current Sensors Product and Services

Table 66. Tamura Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Tamura Recent Developments/Updates

Table 68. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 69. Texas Instruments Major Business

Table 70. Texas Instruments Current Sensors Product and Services

Table 71. Texas Instruments Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Texas Instruments Recent Developments/Updates

Table 73. Continental Basic Information, Manufacturing Base and Competitors

Table 74. Continental Major Business

Table 75. Continental Current Sensors Product and Services

Table 76. Continental Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Continental Recent Developments/Updates

Table 78. Nicera Basic Information, Manufacturing Base and Competitors

Table 79. Nicera Major Business

Table 80. Nicera Current Sensors Product and Services

Table 81. Nicera Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. Nicera Recent Developments/Updates

Table 83. BYD Basic Information, Manufacturing Base and Competitors

Table 84. BYD Major Business

Table 85. BYD Current Sensors Product and Services

Table 86. BYD Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. BYD Recent Developments/Updates

Table 88. MultiDimension Technology Basic Information, Manufacturing Base and Competitors

Table 89. MultiDimension Technology Major Business

Table 90. MultiDimension Technology Current Sensors Product and Services

Table 91. MultiDimension Technology Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 92. MultiDimension Technology Recent Developments/Updates

Table 93. CRRC Basic Information, Manufacturing Base and Competitors

Table 94. CRRC Major Business

Table 95. CRRC Current Sensors Product and Services

Table 96. CRRC Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 97. CRRC Recent Developments/Updates

Table 98. Magtron Intelligent Basic Information, Manufacturing Base and Competitors

Table 99. Magtron Intelligent Major Business

Table 100. Magtron Intelligent Current Sensors Product and Services

Table 101. Magtron Intelligent Current Sensors Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 102. Magtron Intelligent Recent Developments/Updates

Table 103. Global Current Sensors Sales Quantity by Manufacturer (2020-2025) & (M Units)

Table 104. Global Current Sensors Revenue by Manufacturer (2020-2025) & (USD Million)

Table 105. Global Current Sensors Average Price by Manufacturer (2020-2025) & (US\$/K Units)

Table 106. Market Position of Manufacturers in Current Sensors, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 107. Head Office and Current Sensors Production Site of Key Manufacturer

Table 108. Current Sensors Market: Company Product Type Footprint

Table 109. Current Sensors Market: Company Product Application Footprint

Table 110. Current Sensors New Market Entrants and Barriers to Market Entry

Table 111. Current Sensors Mergers, Acquisition, Agreements, and Collaborations

Table 112. Global Current Sensors Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 113. Global Current Sensors Sales Quantity by Region (2020-2025) & (M Units)

Table 114. Global Current Sensors Sales Quantity by Region (2026-2031) & (M Units)

Table 115. Global Current Sensors Consumption Value by Region (2020-2025) & (USD Million)

Table 116. Global Current Sensors Consumption Value by Region (2026-2031) & (USD Million)

Table 117. Global Current Sensors Average Price by Region (2020-2025) & (US\$/K Units)

Table 118. Global Current Sensors Average Price by Region (2026-2031) & (US\$/K Units)

Table 119. Global Current Sensors Sales Quantity by Type (2020-2025) & (M Units)

Table 120. Global Current Sensors Sales Quantity by Type (2026-2031) & (M Units)

Table 121. Global Current Sensors Consumption Value by Type (2020-2025) & (USD Million)

Table 122. Global Current Sensors Consumption Value by Type (2026-2031) & (USD Million)

Table 123. Global Current Sensors Average Price by Type (2020-2025) & (US\$/K Units)

Table 124. Global Current Sensors Average Price by Type (2026-2031) & (US\$/K Units)

Table 125. Global Current Sensors Sales Quantity by Application (2020-2025) & (M Units)

Table 126. Global Current Sensors Sales Quantity by Application (2026-2031) & (M Units)

Table 127. Global Current Sensors Consumption Value by Application (2020-2025) & (USD Million)

Table 128. Global Current Sensors Consumption Value by Application (2026-2031) & (USD Million)

Table 129. Global Current Sensors Average Price by Application (2020-2025) & (US\$/K Units)

Table 130. Global Current Sensors Average Price by Application (2026-2031) & (US\$/K Units)

Table 131. North America Current Sensors Sales Quantity by Type (2020-2025) & (M Units)

Table 132. North America Current Sensors Sales Quantity by Type (2026-2031) & (M Units)

Table 133. North America Current Sensors Sales Quantity by Application (2020-2025) & (M Units)

Table 134. North America Current Sensors Sales Quantity by Application (2026-2031) & (M Units)

Table 135. North America Current Sensors Sales Quantity by Country (2020-2025) & (M Units)

Table 136. North America Current Sensors Sales Quantity by Country (2026-2031) & (M Units)

Table 137. North America Current Sensors Consumption Value by Country (2020-2025)

& (USD Million)

Table 138. North America Current Sensors Consumption Value by Country (2026-2031)

& (USD Million)

Table 139. Europe Current Sensors Sales Quantity by Type (2020-2025) & (M Units)

Table 140. Europe Current Sensors Sales Quantity by Type (2026-2031) & (M Units)

Table 141. Europe Current Sensors Sales Quantity by Application (2020-2025) & (M Units)

Table 142. Europe Current Sensors Sales Quantity by Application (2026-2031) & (M Units)

Table 143. Europe Current Sensors Sales Quantity by Country (2020-2025) & (M Units)

Table 144. Europe Current Sensors Sales Quantity by Country (2026-2031) & (M Units)

Table 145. Europe Current Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 146. Europe Current Sensors Consumption Value by Country (2026-2031) & (USD Million)

Table 147. Asia-Pacific Current Sensors Sales Quantity by Type (2020-2025) & (M Units)

Table 148. Asia-Pacific Current Sensors Sales Quantity by Type (2026-2031) & (M Units)

Table 149. Asia-Pacific Current Sensors Sales Quantity by Application (2020-2025) & (M Units)

Table 150. Asia-Pacific Current Sensors Sales Quantity by Application (2026-2031) & (M Units)

Table 151. Asia-Pacific Current Sensors Sales Quantity by Region (2020-2025) & (M Units)

Table 152. Asia-Pacific Current Sensors Sales Quantity by Region (2026-2031) & (M Units)

Table 153. Asia-Pacific Current Sensors Consumption Value by Region (2020-2025) & (USD Million)

Table 154. Asia-Pacific Current Sensors Consumption Value by Region (2026-2031) & (USD Million)

Table 155. South America Current Sensors Sales Quantity by Type (2020-2025) & (M Units)

Table 156. South America Current Sensors Sales Quantity by Type (2026-2031) & (M Units)

Table 157. South America Current Sensors Sales Quantity by Application (2020-2025) & (M Units)

Table 158. South America Current Sensors Sales Quantity by Application (2026-2031) & (M Units)

Table 159. South America Current Sensors Sales Quantity by Country (2020-2025) & (M Units)

Table 160. South America Current Sensors Sales Quantity by Country (2026-2031) & (M Units)

Table 161. South America Current Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 162. South America Current Sensors Consumption Value by Country (2026-2031) & (USD Million)

Table 163. Middle East & Africa Current Sensors Sales Quantity by Type (2020-2025) & (M Units)

Table 164. Middle East & Africa Current Sensors Sales Quantity by Type (2026-2031) & (M Units)

Table 165. Middle East & Africa Current Sensors Sales Quantity by Application (2020-2025) & (M Units)

Table 166. Middle East & Africa Current Sensors Sales Quantity by Application (2026-2031) & (M Units)

Table 167. Middle East & Africa Current Sensors Sales Quantity by Country (2020-2025) & (M Units)

Table 168. Middle East & Africa Current Sensors Sales Quantity by Country (2026-2031) & (M Units)

Table 169. Middle East & Africa Current Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 170. Middle East & Africa Current Sensors Consumption Value by Country (2026-2031) & (USD Million)

Table 171. Current Sensors Raw Material

Table 172. Key Manufacturers of Current Sensors Raw Materials

Table 173. Current Sensors Typical Distributors

Table 174. Current Sensors Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Current Sensors Picture

Figure 2. Global Current Sensors Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Current Sensors Revenue Market Share by Type in 2024

Figure 4. Hall Effect Current Sensor Examples

Figure 5. Shunt Based Current Sensor Examples

Figure 6. xMR Current Sensor Examples

Figure 7. Others Examples

Figure 8. Global Current Sensors Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 9. Global Current Sensors Revenue Market Share by Application in 2024

Figure 10. Industrial Examples

Figure 11. Automotive Examples

Figure 12. Commercial Examples

Figure 13. Others Examples

Figure 14. Global Current Sensors Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 15. Global Current Sensors Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 16. Global Current Sensors Sales Quantity (2020-2031) & (M Units)

Figure 17. Global Current Sensors Price (2020-2031) & (US\$/K Units)

Figure 18. Global Current Sensors Sales Quantity Market Share by Manufacturer in 2024

Figure 19. Global Current Sensors Revenue Market Share by Manufacturer in 2024

Figure 20. Producer Shipments of Current Sensors by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 21. Top 3 Current Sensors Manufacturer (Revenue) Market Share in 2024

Figure 22. Top 6 Current Sensors Manufacturer (Revenue) Market Share in 2024

Figure 23. Global Current Sensors Sales Quantity Market Share by Region (2020-2031)

Figure 24. Global Current Sensors Consumption Value Market Share by Region (2020-2031)

Figure 25. North America Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 26. Europe Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 27. Asia-Pacific Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 28. South America Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 29. Middle East & Africa Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 30. Global Current Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 31. Global Current Sensors Consumption Value Market Share by Type (2020-2031)

Figure 32. Global Current Sensors Average Price by Type (2020-2031) & (US\$/K Units)

Figure 33. Global Current Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 34. Global Current Sensors Revenue Market Share by Application (2020-2031)

Figure 35. Global Current Sensors Average Price by Application (2020-2031) & (US\$/K Units)

Figure 36. North America Current Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 37. North America Current Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 38. North America Current Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 39. North America Current Sensors Consumption Value Market Share by Country (2020-2031)

Figure 40. United States Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 41. Canada Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 42. Mexico Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 43. Europe Current Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 44. Europe Current Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 45. Europe Current Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 46. Europe Current Sensors Consumption Value Market Share by Country (2020-2031)

Figure 47. Germany Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 48. France Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 49. United Kingdom Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 50. Russia Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 51. Italy Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 52. Asia-Pacific Current Sensors Sales Quantity Market Share by Type

(2020-2031)

Figure 53. Asia-Pacific Current Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 54. Asia-Pacific Current Sensors Sales Quantity Market Share by Region (2020-2031)

Figure 55. Asia-Pacific Current Sensors Consumption Value Market Share by Region (2020-2031)

Figure 56. China Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 57. Japan Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 58. South Korea Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 59. India Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 60. Southeast Asia Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 61. Australia Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 62. South America Current Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 63. South America Current Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 64. South America Current Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 65. South America Current Sensors Consumption Value Market Share by Country (2020-2031)

Figure 66. Brazil Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 67. Argentina Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 68. Middle East & Africa Current Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 69. Middle East & Africa Current Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 70. Middle East & Africa Current Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 71. Middle East & Africa Current Sensors Consumption Value Market Share by Country (2020-2031)

Figure 72. Turkey Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 73. Egypt Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 74. Saudi Arabia Current Sensors Consumption Value (2020-2031) & (USD Million)

Figure 75. South Africa Current Sensors Consumption Value (2020-2031) & (USD Million)

- Figure 76. Current Sensors Market Drivers
- Figure 77. Current Sensors Market Restraints
- Figure 78. Current Sensors Market Trends
- Figure 79. Porters Five Forces Analysis
- Figure 80. Manufacturing Cost Structure Analysis of Current Sensors in 2024
- Figure 81. Manufacturing Process Analysis of Current Sensors
- Figure 82. Current Sensors Industrial Chain
- Figure 83. Sales Channel: Direct to End-User vs Distributors
- Figure 84. Direct Channel Pros & Cons
- Figure 85. Indirect Channel Pros & Cons
- Figure 86. Methodology
- Figure 87. Research Process and Data Source

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