

Global Bidirectional Current Sensors Market Growth 2026-2032

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Abstracts

The global Bidirectional Current Sensors market size is predicted to grow from US\$ 1555 million in 2025 to US\$ 2730 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

In 2025, global Bidirectional Current Sensor output reached about 800 million units and global capacity of around 950 million units. The average price is about USD 2 per unit, with gross margins near 34%. Bidirectional Current Sensors are electronic sensing devices designed to measure electric current flowing in both positive and negative directions within AC and DC power systems. These sensors detect the magnitude and direction of current flow by using technologies such as Hall-effect sensing, shunt resistors, fluxgate sensing, magnetoresistive sensing, or current transformers, enabling accurate monitoring of charging/discharging cycles, regenerative energy flow, motor control, battery management, inverter systems, and smart power distribution. Bidirectional Current Sensors are widely used in electric vehicles, renewable energy systems, industrial automation, data centers, consumer electronics, robotics, UPS systems, and smart grids where reverse current detection and precise energy management are essential. The supply chain of Bidirectional Current Sensors begins with upstream raw material and component suppliers providing semiconductor wafers, magnetic cores, copper alloys, MEMS elements, ASIC chips, packaging substrates, and precision resistors. Midstream manufacturers including semiconductor companies and sensor module producers design, fabricate, calibrate, and package integrated current sensing ICs, isolated sensor modules, and digital monitoring systems. Downstream system integrators and OEMs incorporate these sensors into EV battery systems, motor drives, solar inverters, industrial equipment, charging stations, telecom infrastructure, and energy storage platforms, while software and control system providers further integrate sensor data into power management, diagnostics, safety protection, and

predictive maintenance applications.

United States market for Bidirectional Current Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Bidirectional Current Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Bidirectional Current Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Bidirectional Current Sensors players cover Allegro MicroSystems, Infineon Technologies, LEM Holding, Texas Instruments, Honeywell, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Bidirectional Current Sensors Industry Forecast" looks at past sales and reviews total world Bidirectional Current Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Bidirectional Current Sensors sales for 2026 through 2032. With Bidirectional Current Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bidirectional Current Sensors industry.

This Insight Report provides a comprehensive analysis of the global Bidirectional Current Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bidirectional Current Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bidirectional Current Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bidirectional Current Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bidirectional Current Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Bidirectional Current Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Isolated Bidirectional Current Sensors

Non-Isolated Bidirectional Current Sensors

Segmentation by Response Time:

5 ?s

Segmentation by Application:

Electric Vehicles

Industrial Automation

Energy Storage

Telecom & Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Allegro MicroSystems

Infineon Technologies

LEM Holding

Texas Instruments

Honeywell

TDK Corporation

STMicroelectronics

onsemi

NXP Semiconductors

Analog Devices

Melexis

TE Connectivity

ROHM Semiconductor

Tamura

Littelfuse

Novosense

MagnTek

Asensing Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bidirectional Current Sensors market?

What factors are driving Bidirectional Current Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bidirectional Current Sensors market opportunities vary by end market size?

How does Bidirectional Current Sensors break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Bidirectional Current Sensors Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Bidirectional Current Sensors by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Bidirectional Current Sensors by Country/Region, 2021, 2025 & 2032
- 2.2 Bidirectional Current Sensors Segment by Type
 - 2.2.1 Isolated Bidirectional Current Sensors
 - 2.2.2 Non-Isolated Bidirectional Current Sensors
 - 2.2.3 Bidirectional Current Sensors Sales by Type
 - 2.2.3.1 Global Bidirectional Current Sensors Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Bidirectional Current Sensors Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Bidirectional Current Sensors Sale Price by Type (2021-2026)
- 2.3 Bidirectional Current Sensors Segment by Response Time
 - 2.3.1 5 ?s
 - 2.3.4 Bidirectional Current Sensors Sales by Response Time
 - 2.3.4.1 Global Bidirectional Current Sensors Sales Market Share by Response Time (2021-2026)
 - 2.3.4.2 Global Bidirectional Current Sensors Revenue and Market Share by Response Time (2021-2026)
 - 2.3.4.3 Global Bidirectional Current Sensors Sale Price by Response Time (2021-2026)

2.4 Bidirectional Current Sensors Segment by Application

2.4.1 Electric Vehicles

2.4.2 Industrial Automation

2.4.3 Energy Storage

2.4.4 Telecom & Data Centers

2.4.5 Others

2.4.6 Bidirectional Current Sensors Sales by Application

2.4.6.1 Global Bidirectional Current Sensors Sale Market Share by Application (2021-2026)

2.4.6.2 Global Bidirectional Current Sensors Revenue and Market Share by Application (2021-2026)

2.4.6.3 Global Bidirectional Current Sensors Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Bidirectional Current Sensors Breakdown Data by Company

3.1.1 Global Bidirectional Current Sensors Annual Sales by Company (2021-2026)

3.1.2 Global Bidirectional Current Sensors Sales Market Share by Company (2021-2026)

3.2 Global Bidirectional Current Sensors Annual Revenue by Company (2021-2026)

3.2.1 Global Bidirectional Current Sensors Revenue by Company (2021-2026)

3.2.2 Global Bidirectional Current Sensors Revenue Market Share by Company (2021-2026)

3.3 Global Bidirectional Current Sensors Sale Price by Company

3.4 Key Manufacturers Bidirectional Current Sensors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Bidirectional Current Sensors Product Location Distribution

3.4.2 Players Bidirectional Current Sensors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BIDIRECTIONAL CURRENT SENSORS BY GEOGRAPHIC REGION

4.1 World Historic Bidirectional Current Sensors Market Size by Geographic Region (2021-2026)

4.1.1 Global Bidirectional Current Sensors Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Bidirectional Current Sensors Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Bidirectional Current Sensors Market Size by Country/Region (2021-2026)

4.2.1 Global Bidirectional Current Sensors Annual Sales by Country/Region (2021-2026)

4.2.2 Global Bidirectional Current Sensors Annual Revenue by Country/Region (2021-2026)

4.3 Americas Bidirectional Current Sensors Sales Growth

4.4 APAC Bidirectional Current Sensors Sales Growth

4.5 Europe Bidirectional Current Sensors Sales Growth

4.6 Middle East & Africa Bidirectional Current Sensors Sales Growth

5 AMERICAS

5.1 Americas Bidirectional Current Sensors Sales by Country

5.1.1 Americas Bidirectional Current Sensors Sales by Country (2021-2026)

5.1.2 Americas Bidirectional Current Sensors Revenue by Country (2021-2026)

5.2 Americas Bidirectional Current Sensors Sales by Type (2021-2026)

5.3 Americas Bidirectional Current Sensors Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Bidirectional Current Sensors Sales by Region

6.1.1 APAC Bidirectional Current Sensors Sales by Region (2021-2026)

6.1.2 APAC Bidirectional Current Sensors Revenue by Region (2021-2026)

6.2 APAC Bidirectional Current Sensors Sales by Type (2021-2026)

6.3 APAC Bidirectional Current Sensors Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Bidirectional Current Sensors by Country

7.1.1 Europe Bidirectional Current Sensors Sales by Country (2021-2026)

7.1.2 Europe Bidirectional Current Sensors Revenue by Country (2021-2026)

7.2 Europe Bidirectional Current Sensors Sales by Type (2021-2026)

7.3 Europe Bidirectional Current Sensors Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Bidirectional Current Sensors by Country

8.1.1 Middle East & Africa Bidirectional Current Sensors Sales by Country (2021-2026)

8.1.2 Middle East & Africa Bidirectional Current Sensors Revenue by Country
(2021-2026)

8.2 Middle East & Africa Bidirectional Current Sensors Sales by Type (2021-2026)

8.3 Middle East & Africa Bidirectional Current Sensors Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

- 10.2 Manufacturing Cost Structure Analysis of Bidirectional Current Sensors
- 10.3 Manufacturing Process Analysis of Bidirectional Current Sensors
- 10.4 Industry Chain Structure of Bidirectional Current Sensors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Bidirectional Current Sensors Distributors
- 11.3 Bidirectional Current Sensors Customer

12 WORLD FORECAST REVIEW FOR BIDIRECTIONAL CURRENT SENSORS BY GEOGRAPHIC REGION

- 12.1 Global Bidirectional Current Sensors Market Size Forecast by Region
 - 12.1.1 Global Bidirectional Current Sensors Forecast by Region (2027-2032)
 - 12.1.2 Global Bidirectional Current Sensors Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Bidirectional Current Sensors Forecast by Type (2027-2032)
- 12.7 Global Bidirectional Current Sensors Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Allegro MicroSystems
 - 13.1.1 Allegro MicroSystems Company Information
 - 13.1.2 Allegro MicroSystems Bidirectional Current Sensors Product Portfolios and Specifications
 - 13.1.3 Allegro MicroSystems Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Allegro MicroSystems Main Business Overview
 - 13.1.5 Allegro MicroSystems Latest Developments
- 13.2 Infineon Technologies
 - 13.2.1 Infineon Technologies Company Information
 - 13.2.2 Infineon Technologies Bidirectional Current Sensors Product Portfolios and

Specifications

13.2.3 Infineon Technologies Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Infineon Technologies Main Business Overview

13.2.5 Infineon Technologies Latest Developments

13.3 LEM Holding

13.3.1 LEM Holding Company Information

13.3.2 LEM Holding Bidirectional Current Sensors Product Portfolios and

Specifications

13.3.3 LEM Holding Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 LEM Holding Main Business Overview

13.3.5 LEM Holding Latest Developments

13.4 Texas Instruments

13.4.1 Texas Instruments Company Information

13.4.2 Texas Instruments Bidirectional Current Sensors Product Portfolios and

Specifications

13.4.3 Texas Instruments Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Texas Instruments Main Business Overview

13.4.5 Texas Instruments Latest Developments

13.5 Honeywell

13.5.1 Honeywell Company Information

13.5.2 Honeywell Bidirectional Current Sensors Product Portfolios and Specifications

13.5.3 Honeywell Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Honeywell Main Business Overview

13.5.5 Honeywell Latest Developments

13.6 TDK Corporation

13.6.1 TDK Corporation Company Information

13.6.2 TDK Corporation Bidirectional Current Sensors Product Portfolios and

Specifications

13.6.3 TDK Corporation Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 TDK Corporation Main Business Overview

13.6.5 TDK Corporation Latest Developments

13.7 STMicroelectronics

13.7.1 STMicroelectronics Company Information

13.7.2 STMicroelectronics Bidirectional Current Sensors Product Portfolios and

Specifications

13.7.3 STMicroelectronics Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 STMicroelectronics Main Business Overview

13.7.5 STMicroelectronics Latest Developments

13.8 onsemi

13.8.1 onsemi Company Information

13.8.2 onsemi Bidirectional Current Sensors Product Portfolios and Specifications

13.8.3 onsemi Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 onsemi Main Business Overview

13.8.5 onsemi Latest Developments

13.9 NXP Semiconductors

13.9.1 NXP Semiconductors Company Information

13.9.2 NXP Semiconductors Bidirectional Current Sensors Product Portfolios and Specifications

13.9.3 NXP Semiconductors Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 NXP Semiconductors Main Business Overview

13.9.5 NXP Semiconductors Latest Developments

13.10 Analog Devices

13.10.1 Analog Devices Company Information

13.10.2 Analog Devices Bidirectional Current Sensors Product Portfolios and Specifications

13.10.3 Analog Devices Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Analog Devices Main Business Overview

13.10.5 Analog Devices Latest Developments

13.11 Melexis

13.11.1 Melexis Company Information

13.11.2 Melexis Bidirectional Current Sensors Product Portfolios and Specifications

13.11.3 Melexis Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Melexis Main Business Overview

13.11.5 Melexis Latest Developments

13.12 TE Connectivity

13.12.1 TE Connectivity Company Information

13.12.2 TE Connectivity Bidirectional Current Sensors Product Portfolios and Specifications

13.12.3 TE Connectivity Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 TE Connectivity Main Business Overview

13.12.5 TE Connectivity Latest Developments

13.13 ROHM Semiconductor

13.13.1 ROHM Semiconductor Company Information

13.13.2 ROHM Semiconductor Bidirectional Current Sensors Product Portfolios and Specifications

13.13.3 ROHM Semiconductor Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 ROHM Semiconductor Main Business Overview

13.13.5 ROHM Semiconductor Latest Developments

13.14 Tamura

13.14.1 Tamura Company Information

13.14.2 Tamura Bidirectional Current Sensors Product Portfolios and Specifications

13.14.3 Tamura Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Tamura Main Business Overview

13.14.5 Tamura Latest Developments

13.15 Littelfuse

13.15.1 Littelfuse Company Information

13.15.2 Littelfuse Bidirectional Current Sensors Product Portfolios and Specifications

13.15.3 Littelfuse Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Littelfuse Main Business Overview

13.15.5 Littelfuse Latest Developments

13.16 Novosense

13.16.1 Novosense Company Information

13.16.2 Novosense Bidirectional Current Sensors Product Portfolios and Specifications

13.16.3 Novosense Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Novosense Main Business Overview

13.16.5 Novosense Latest Developments

13.17 MagnTek

13.17.1 MagnTek Company Information

13.17.2 MagnTek Bidirectional Current Sensors Product Portfolios and Specifications

13.17.3 MagnTek Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 MagnTek Main Business Overview

13.17.5 MagnTek Latest Developments

13.18 Asensing Technology

13.18.1 Asensing Technology Company Information

13.18.2 Asensing Technology Bidirectional Current Sensors Product Portfolios and Specifications

13.18.3 Asensing Technology Bidirectional Current Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Asensing Technology Main Business Overview

13.18.5 Asensing Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Bidirectional Current Sensors Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Bidirectional Current Sensors Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Isolated Bidirectional Current Sensors

Table 4. Major Players of Non-Isolated Bidirectional Current Sensors

Table 5. Global Bidirectional Current Sensors Sales by Type (2021-2026) & (Million Units)

Table 6. Global Bidirectional Current Sensors Sales Market Share by Type (2021-2026)

Table 7. Global Bidirectional Current Sensors Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Bidirectional Current Sensors Revenue Market Share by Type (2021-2026)

Table 9. Global Bidirectional Current Sensors Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of 5 ?s

Table 13. Global Bidirectional Current Sensors Sales by Response Time (2021-2026) & (Million Units)

Table 14. Global Bidirectional Current Sensors Sales Market Share by Response Time (2021-2026)

Table 15. Global Bidirectional Current Sensors Revenue by Response Time (2021-2026) & (\$ million)

Table 16. Global Bidirectional Current Sensors Revenue Market Share by Response Time (2021-2026)

Table 17. Global Bidirectional Current Sensors Sale Price by Response Time (2021-2026) & (US\$/Unit)

Table 18. Global Bidirectional Current Sensors Sale by Application (2021-2026) & (Million Units)

Table 19. Global Bidirectional Current Sensors Sale Market Share by Application (2021-2026)

Table 20. Global Bidirectional Current Sensors Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Bidirectional Current Sensors Revenue Market Share by Application (2021-2026)

Table 22. Global Bidirectional Current Sensors Sale Price by Application (2021-2026) &

(US\$/Unit)

Table 23. Global Bidirectional Current Sensors Sales by Company (2021-2026) & (Million Units)

Table 24. Global Bidirectional Current Sensors Sales Market Share by Company (2021-2026)

Table 25. Global Bidirectional Current Sensors Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Bidirectional Current Sensors Revenue Market Share by Company (2021-2026)

Table 27. Global Bidirectional Current Sensors Sale Price by Company (2021-2026) & (US\$/Unit)

Table 28. Key Manufacturers Bidirectional Current Sensors Producing Area Distribution and Sales Area

Table 29. Players Bidirectional Current Sensors Products Offered

Table 30. Bidirectional Current Sensors Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global Bidirectional Current Sensors Sales by Geographic Region (2021-2026) & (Million Units)

Table 34. Global Bidirectional Current Sensors Sales Market Share Geographic Region (2021-2026)

Table 35. Global Bidirectional Current Sensors Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global Bidirectional Current Sensors Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global Bidirectional Current Sensors Sales by Country/Region (2021-2026) & (Million Units)

Table 38. Global Bidirectional Current Sensors Sales Market Share by Country/Region (2021-2026)

Table 39. Global Bidirectional Current Sensors Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global Bidirectional Current Sensors Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas Bidirectional Current Sensors Sales by Country (2021-2026) & (Million Units)

Table 42. Americas Bidirectional Current Sensors Sales Market Share by Country (2021-2026)

Table 43. Americas Bidirectional Current Sensors Revenue by Country (2021-2026) &

(\$ millions)

Table 44. Americas Bidirectional Current Sensors Sales by Type (2021-2026) & (Million Units)

Table 45. Americas Bidirectional Current Sensors Sales by Application (2021-2026) & (Million Units)

Table 46. APAC Bidirectional Current Sensors Sales by Region (2021-2026) & (Million Units)

Table 47. APAC Bidirectional Current Sensors Sales Market Share by Region (2021-2026)

Table 48. APAC Bidirectional Current Sensors Revenue by Region (2021-2026) & (\$ millions)

Table 49. APAC Bidirectional Current Sensors Sales by Type (2021-2026) & (Million Units)

Table 50. APAC Bidirectional Current Sensors Sales by Application (2021-2026) & (Million Units)

Table 51. Europe Bidirectional Current Sensors Sales by Country (2021-2026) & (Million Units)

Table 52. Europe Bidirectional Current Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe Bidirectional Current Sensors Sales by Type (2021-2026) & (Million Units)

Table 54. Europe Bidirectional Current Sensors Sales by Application (2021-2026) & (Million Units)

Table 55. Middle East & Africa Bidirectional Current Sensors Sales by Country (2021-2026) & (Million Units)

Table 56. Middle East & Africa Bidirectional Current Sensors Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa Bidirectional Current Sensors Sales by Type (2021-2026) & (Million Units)

Table 58. Middle East & Africa Bidirectional Current Sensors Sales by Application (2021-2026) & (Million Units)

Table 59. Key Market Drivers & Growth Opportunities of Bidirectional Current Sensors

Table 60. Key Market Challenges & Risks of Bidirectional Current Sensors

Table 61. Key Industry Trends of Bidirectional Current Sensors

Table 62. Bidirectional Current Sensors Raw Material

Table 63. Key Suppliers of Raw Materials

Table 64. Bidirectional Current Sensors Distributors List

Table 65. Bidirectional Current Sensors Customer List

Table 66. Global Bidirectional Current Sensors Sales Forecast by Region (2027-2032)

& (Million Units)

Table 67. Global Bidirectional Current Sensors Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 68. Americas Bidirectional Current Sensors Sales Forecast by Country (2027-2032) & (Million Units)

Table 69. Americas Bidirectional Current Sensors Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 70. APAC Bidirectional Current Sensors Sales Forecast by Region (2027-2032) & (Million Units)

Table 71. APAC Bidirectional Current Sensors Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 72. Europe Bidirectional Current Sensors Sales Forecast by Country (2027-2032) & (Million Units)

Table 73. Europe Bidirectional Current Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 74. Middle East & Africa Bidirectional Current Sensors Sales Forecast by Country (2027-2032) & (Million Units)

Table 75. Middle East & Africa Bidirectional Current Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Global Bidirectional Current Sensors Sales Forecast by Type (2027-2032) & (Million Units)

Table 77. Global Bidirectional Current Sensors Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 78. Global Bidirectional Current Sensors Sales Forecast by Application (2027-2032) & (Million Units)

Table 79. Global Bidirectional Current Sensors Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 80. Allegro MicroSystems Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 81. Allegro MicroSystems Bidirectional Current Sensors Product Portfolios and Specifications

Table 82. Allegro MicroSystems Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 83. Allegro MicroSystems Main Business

Table 84. Allegro MicroSystems Latest Developments

Table 85. Infineon Technologies Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 86. Infineon Technologies Bidirectional Current Sensors Product Portfolios and Specifications

Table 87. Infineon Technologies Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 88. Infineon Technologies Main Business

Table 89. Infineon Technologies Latest Developments

Table 90. LEM Holding Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 91. LEM Holding Bidirectional Current Sensors Product Portfolios and Specifications

Table 92. LEM Holding Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. LEM Holding Main Business

Table 94. LEM Holding Latest Developments

Table 95. Texas Instruments Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 96. Texas Instruments Bidirectional Current Sensors Product Portfolios and Specifications

Table 97. Texas Instruments Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Texas Instruments Main Business

Table 99. Texas Instruments Latest Developments

Table 100. Honeywell Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 101. Honeywell Bidirectional Current Sensors Product Portfolios and Specifications

Table 102. Honeywell Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Honeywell Main Business

Table 104. Honeywell Latest Developments

Table 105. TDK Corporation Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 106. TDK Corporation Bidirectional Current Sensors Product Portfolios and Specifications

Table 107. TDK Corporation Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. TDK Corporation Main Business

Table 109. TDK Corporation Latest Developments

Table 110. STMicroelectronics Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 111. STMicroelectronics Bidirectional Current Sensors Product Portfolios and

Specifications

Table 112. STMicroelectronics Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. STMicroelectronics Main Business

Table 114. STMicroelectronics Latest Developments

Table 115. onsemi Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 116. onsemi Bidirectional Current Sensors Product Portfolios and Specifications

Table 117. onsemi Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. onsemi Main Business

Table 119. onsemi Latest Developments

Table 120. NXP Semiconductors Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 121. NXP Semiconductors Bidirectional Current Sensors Product Portfolios and Specifications

Table 122. NXP Semiconductors Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. NXP Semiconductors Main Business

Table 124. NXP Semiconductors Latest Developments

Table 125. Analog Devices Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 126. Analog Devices Bidirectional Current Sensors Product Portfolios and Specifications

Table 127. Analog Devices Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Analog Devices Main Business

Table 129. Analog Devices Latest Developments

Table 130. Melexis Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 131. Melexis Bidirectional Current Sensors Product Portfolios and Specifications

Table 132. Melexis Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Melexis Main Business

Table 134. Melexis Latest Developments

Table 135. TE Connectivity Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 136. TE Connectivity Bidirectional Current Sensors Product Portfolios and Specifications

Table 137. TE Connectivity Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. TE Connectivity Main Business

Table 139. TE Connectivity Latest Developments

Table 140. ROHM Semiconductor Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 141. ROHM Semiconductor Bidirectional Current Sensors Product Portfolios and Specifications

Table 142. ROHM Semiconductor Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. ROHM Semiconductor Main Business

Table 144. ROHM Semiconductor Latest Developments

Table 145. Tamura Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 146. Tamura Bidirectional Current Sensors Product Portfolios and Specifications

Table 147. Tamura Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Tamura Main Business

Table 149. Tamura Latest Developments

Table 150. Littelfuse Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 151. Littelfuse Bidirectional Current Sensors Product Portfolios and Specifications

Table 152. Littelfuse Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Littelfuse Main Business

Table 154. Littelfuse Latest Developments

Table 155. Novosense Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 156. Novosense Bidirectional Current Sensors Product Portfolios and Specifications

Table 157. Novosense Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Novosense Main Business

Table 159. Novosense Latest Developments

Table 160. MagnTek Basic Information, Bidirectional Current Sensors Manufacturing Base, Sales Area and Its Competitors

Table 161. MagnTek Bidirectional Current Sensors Product Portfolios and Specifications

Table 162. MagnTek Bidirectional Current Sensors Sales (Million Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. MagnTek Main Business

Table 164. MagnTek Latest Developments

Table 165. Asensing Technology Basic Information, Bidirectional Current Sensors

Manufacturing Base, Sales Area and Its Competitors

Table 166. Asensing Technology Bidirectional Current Sensors Product Portfolios and Specifications

Table 167. Asensing Technology Bidirectional Current Sensors Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 168. Asensing Technology Main Business

Table 169. Asensing Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Bidirectional Current Sensors
- Figure 2. Bidirectional Current Sensors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Bidirectional Current Sensors Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global Bidirectional Current Sensors Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Bidirectional Current Sensors Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Bidirectional Current Sensors Sales Market Share by Country/Region (2025)
- Figure 10. Bidirectional Current Sensors Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Isolated Bidirectional Current Sensors
- Figure 12. Product Picture of Non-Isolated Bidirectional Current Sensors
- Figure 13. Global Bidirectional Current Sensors Sales Market Share by Type in 2026
- Figure 14. Global Bidirectional Current Sensors Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 5 ?s
- Figure 18. Global Bidirectional Current Sensors Sales Market Share by Response Time in 2026
- Figure 19. Global Bidirectional Current Sensors Revenue Market Share by Response Time (2021-2026)
- Figure 20. Bidirectional Current Sensors Consumed in Electric Vehicles
- Figure 21. Global Bidirectional Current Sensors Market: Electric Vehicles (2021-2026) & (Million Units)
- Figure 22. Bidirectional Current Sensors Consumed in Industrial Automation
- Figure 23. Global Bidirectional Current Sensors Market: Industrial Automation (2021-2026) & (Million Units)
- Figure 24. Bidirectional Current Sensors Consumed in Energy Storage
- Figure 25. Global Bidirectional Current Sensors Market: Energy Storage (2021-2026) & (Million Units)
- Figure 26. Bidirectional Current Sensors Consumed in Telecom & Data Centers
- Figure 27. Global Bidirectional Current Sensors Market: Telecom & Data Centers

(2021-2026) & (Million Units)

Figure 28. Bidirectional Current Sensors Consumed in Others

Figure 29. Global Bidirectional Current Sensors Market: Others (2021-2026) & (Million Units)

Figure 30. Global Bidirectional Current Sensors Sale Market Share by Application (2025)

Figure 31. Global Bidirectional Current Sensors Revenue Market Share by Application in 2025

Figure 32. Bidirectional Current Sensors Sales by Company in 2025 (Million Units)

Figure 33. Global Bidirectional Current Sensors Sales Market Share by Company in 2025

Figure 34. Bidirectional Current Sensors Revenue by Company in 2025 (\$ millions)

Figure 35. Global Bidirectional Current Sensors Revenue Market Share by Company in 2025

Figure 36. Global Bidirectional Current Sensors Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global Bidirectional Current Sensors Revenue Market Share by Geographic Region in 2025

Figure 38. Americas Bidirectional Current Sensors Sales 2021-2026 (Million Units)

Figure 39. Americas Bidirectional Current Sensors Revenue 2021-2026 (\$ millions)

Figure 40. APAC Bidirectional Current Sensors Sales 2021-2026 (Million Units)

Figure 41. APAC Bidirectional Current Sensors Revenue 2021-2026 (\$ millions)

Figure 42. Europe Bidirectional Current Sensors Sales 2021-2026 (Million Units)

Figure 43. Europe Bidirectional Current Sensors Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa Bidirectional Current Sensors Sales 2021-2026 (Million Units)

Figure 45. Middle East & Africa Bidirectional Current Sensors Revenue 2021-2026 (\$ millions)

Figure 46. Americas Bidirectional Current Sensors Sales Market Share by Country in 2025

Figure 47. Americas Bidirectional Current Sensors Revenue Market Share by Country (2021-2026)

Figure 48. Americas Bidirectional Current Sensors Sales Market Share by Type (2021-2026)

Figure 49. Americas Bidirectional Current Sensors Sales Market Share by Application (2021-2026)

Figure 50. United States Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada Bidirectional Current Sensors Revenue Growth 2021-2026 (\$

millions)

Figure 52. Mexico Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Bidirectional Current Sensors Sales Market Share by Region in 2025

Figure 55. APAC Bidirectional Current Sensors Revenue Market Share by Region (2021-2026)

Figure 56. APAC Bidirectional Current Sensors Sales Market Share by Type (2021-2026)

Figure 57. APAC Bidirectional Current Sensors Sales Market Share by Application (2021-2026)

Figure 58. China Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe Bidirectional Current Sensors Sales Market Share by Country in 2025

Figure 66. Europe Bidirectional Current Sensors Revenue Market Share by Country (2021-2026)

Figure 67. Europe Bidirectional Current Sensors Sales Market Share by Type (2021-2026)

Figure 68. Europe Bidirectional Current Sensors Sales Market Share by Application (2021-2026)

Figure 69. Germany Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 70. France Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa Bidirectional Current Sensors Sales Market Share by

Country (2021-2026)

Figure 75. Middle East & Africa Bidirectional Current Sensors Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa Bidirectional Current Sensors Sales Market Share by Application (2021-2026)

Figure 77. Egypt Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries Bidirectional Current Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of Bidirectional Current Sensors in 2026

Figure 83. Manufacturing Process Analysis of Bidirectional Current Sensors

Figure 84. Industry Chain Structure of Bidirectional Current Sensors

Figure 85. Channels of Distribution

Figure 86. Global Bidirectional Current Sensors Sales Market Forecast by Region (2027-2032)

Figure 87. Global Bidirectional Current Sensors Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global Bidirectional Current Sensors Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global Bidirectional Current Sensors Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global Bidirectional Current Sensors Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global Bidirectional Current Sensors Revenue Market Share Forecast by Application (2027-2032)

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