

Global Current Sensors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Current Sensors market size will reach 4,560.76 Million USD in 2025 and is projected to reach 8,510.10 Million USD by 2032, with a CAGR of 9.32% (2025-2032). Notably, the China Current Sensors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Current sensors, also known as current transducers or current probes, are electronic devices used to measure and monitor electric current flowing through a circuit without the need for direct electrical contact. These sensors work based on the principle of magnetic induction, where a magnetic field is generated around the current-carrying conductor. The current sensor detects this magnetic field and converts it into an electrical signal proportional to the current being measured. Current sensors come in various types, including Hall effect sensors, Rogowski coils, and clamp-on sensors, each offering different features and benefits depending on the application. They are widely used in power systems, motor control, energy monitoring, and industrial automation to provide real-time current measurements, enable overcurrent protection, and optimize energy efficiency. Current sensors play a critical role in ensuring the safe and efficient operation of electrical systems and are essential components in modern electronic devices and equipment.

The major global manufacturers of Current Sensors include Asahi Kasei Microdevices

Corporation, Allegro Microsystems, Melexis NV, TDK Micronas, LEM Holding, Honeywell International, Infineon Technologies, Kohshin Electric Corporation, Sensitec, Pulse Electronics Corporation, MultiDimension Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Current Sensors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Current Sensors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Current Sensors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Current Sensors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Current Sensors Include:

Asahi Kasei Microdevices Corporation

Allegro Microsystems

Melexis NV

TDK Micronas

LEM Holding

Honeywell International

Infineon Technologies

Kohshin Electric Corporation

Sensitec

Pulse Electronics Corporation

MultiDimension Technology

Current Sensors Product Segment Include:

Hall-Effect Current Sensors

Shunt Current Sensors

TMR Current Sensors

Others

Current Sensors Product Application Include:

Industrial Automation

Power Electronics

Automotive Systems

Renewable Energy Systems

Consumer Electronics

Medical Devices

Aerospace and Defense

Other

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Current Sensors Industry PESTEL Analysis

Chapter 3: Global Current Sensors Industry Porter's Five Forces Analysis

Chapter 4: Global Current Sensors Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Current Sensors Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Current Sensors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Current Sensors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Current Sensors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Current Sensors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Current Sensors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Current Sensors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Current Sensors Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 CURRENT SENSORS MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 Current Sensors Product by Type
 - 1.2.1 Hall-Effect Current Sensors
 - 1.2.2 Shunt Current Sensors
 - 1.2.3 TMR Current Sensors
 - 1.2.4 Others
- 1.3 Current Sensors Product by Application
 - 1.3.1 Industrial Automation
 - 1.3.2 Power Electronics
 - 1.3.3 Automotive Systems
 - 1.3.4 Renewable Energy Systems
 - 1.3.5 Consumer Electronics
 - 1.3.6 Medical Devices
 - 1.3.7 Aerospace and Defense
 - 1.3.8 Other
- 1.4 Global Current Sensors Market Revenue and Sales Analysis
 - 1.4.1 Global Current Sensors Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global Current Sensors Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global Current Sensors Market Sales Price Trend Analysis (2020-2032)
- 1.5 Current Sensors Industry Trends and Innovation
 - 1.5.1 Current Sensors Industry Trends and Innovation
 - 1.5.2 Current Sensors Market Drivers and Challenges

2 CURRENT SENSORS MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 CURRENT SENSORS MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry

- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL CURRENT SENSORS MARKET ANALYSIS BY REGIONS

- 4.1 Global Current Sensors Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global Current Sensors Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global Current Sensors Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global Current Sensors Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global Current Sensors Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global Current Sensors Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global Current Sensors Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global Current Sensors Sales Price Trend Analysis (2020-2032)

5 GLOBAL CURRENT SENSORS MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global Current Sensors Market Size by Type
 - 5.1.1 Global Current Sensors Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global Current Sensors Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global Current Sensors Market Size by Application
 - 5.2.1 Global Current Sensors Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global Current Sensors Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

- 6.1 North America Current Sensors Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America Current Sensors Market Size by Type
 - 6.3.1 North America Current Sensors Sales by Type (2020-2032)
 - 6.3.2 North America Current Sensors Revenue by Type (2020-2032)
- 6.4 North America Current Sensors Market Size by Application
 - 6.4.1 North America Current Sensors Sales by Application (2020-2032)
 - 6.4.2 North America Current Sensors Revenue by Application (2020-2032)
- 6.5 North America Current Sensors Market Size by Country

- 6.5.1 US
- 6.5.2 Canada

7 EUROPE

- 7.1 Europe Current Sensors Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis
- 7.3 Europe Current Sensors Market Size by Type
 - 7.3.1 Europe Current Sensors Sales by Type (2020-2032)
 - 7.3.2 Europe Current Sensors Revenue by Type (2020-2032)
- 7.4 Europe Current Sensors Market Size by Application
 - 7.4.1 Europe Current Sensors Sales by Application (2020-2032)
 - 7.4.2 Europe Current Sensors Revenue by Application (2020-2032)
- 7.5 Europe Current Sensors Market Size by Country
 - 7.5.1 Germany
 - 7.5.2 France
 - 7.5.3 United Kingdom
 - 7.5.4 Italy
 - 7.5.5 Spain
 - 7.5.6 Benelux

8 CHINA

- 8.1 China Current Sensors Market Size and Growth Rate Analysis (2020-2032)
- 8.2 China Key Manufacturers Analysis
- 8.3 China Current Sensors Market Size by Type
 - 8.3.1 China Current Sensors Sales by Type (2020-2032)
 - 8.3.2 China Current Sensors Revenue by Type (2020-2032)
- 8.4 China Current Sensors Market Size by Application
 - 8.4.1 China Current Sensors Sales by Application (2020-2032)
 - 8.4.2 China Current Sensors Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

- 9.1 APAC (excl. China) Current Sensors Market Size and Growth Rate Analysis (2020-2032)
- 9.2 APAC (excl. China) Key Manufacturers Analysis
- 9.3 APAC (excl. China) Current Sensors Market Size by Type
 - 9.3.1 APAC (excl. China) Current Sensors Sales by Type (2020-2032)

- 9.3.2 APAC (excl. China) Current Sensors Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) Current Sensors Market Size by Application
 - 9.4.1 APAC (excl. China) Current Sensors Sales by Application (2020-2032)
 - 9.4.2 APAC (excl. China) Current Sensors Revenue by Application (2020-2032)
- 9.5 APAC (excl. China) Current Sensors Market Size by Country
 - 9.5.1 Japan
 - 9.5.2 South Korea
 - 9.5.3 India
 - 9.5.4 Australia
 - 9.5.5 Southeast Asia

10 LATIN AMERICA

- 10.1 Latin America Current Sensors Market Size and Growth Rate Analysis (2020-2032)
- 10.2 Latin America Key Manufacturers Analysis
- 10.3 Latin America Current Sensors Market Size by Type
 - 10.3.1 Latin America Current Sensors Sales by Type (2020-2032)
 - 10.3.2 Latin America Current Sensors Revenue by Type (2020-2032)
- 10.4 Latin America Current Sensors Market Size by Application
 - 10.4.1 Latin America Current Sensors Sales by Application (2020-2032)
 - 10.4.2 Latin America Current Sensors Revenue by Application (2020-2032)
- 10.5 Latin America Current Sensors Market Size by Country
- 10.6 Latin America Current Sensors Market Size by Country
 - 10.6.1 Mexico
 - 10.6.2 Brazil

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Current Sensors Market Size and Growth Rate Analysis (2020-2032)
- 11.2 Middle East & Africa Key Manufacturers Analysis
- 11.3 Middle East & Africa Current Sensors Market Size by Type
 - 11.3.1 Middle East & Africa Current Sensors Sales by Type (2020-2032)
 - 11.3.2 Middle East & Africa Current Sensors Revenue by Type (2020-2032)
- 11.4 Middle East & Africa Current Sensors Market Size by Application
 - 11.4.1 Middle East & Africa Current Sensors Sales by Application (2020-2032)
 - 11.4.2 Middle East & Africa Current Sensors Revenue by Application (2020-2032)
- 11.5 Middle East Current Sensors Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

12.1 Global Current Sensors Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Current Sensors Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Current Sensors Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Current Sensors Average Sales Price by Manufacturers (2021-2025)

12.2 Current Sensors Competitive Landscape Analysis and Market Dynamic

12.2.1 Current Sensors Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 Asahi Kasei Microdevices Corporation

13.1.1 Asahi Kasei Microdevices Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Asahi Kasei Microdevices Corporation Current Sensors Product Portfolio

13.1.3 Asahi Kasei Microdevices Corporation Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 Allegro Microsystems

13.2.1 Allegro Microsystems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 Allegro Microsystems Current Sensors Product Portfolio

13.2.3 Allegro Microsystems Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 Melexis NV

13.3.1 Melexis NV Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Melexis NV Current Sensors Product Portfolio

13.3.3 Melexis NV Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 TDK Micronas

13.4.1 TDK Micronas Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 TDK Micronas Current Sensors Product Portfolio

13.4.3 TDK Micronas Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 LEM Holding

13.5.1 LEM Holding Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 LEM Holding Current Sensors Product Portfolio

13.5.3 LEM Holding Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 Honeywell International

13.6.1 Honeywell International Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Honeywell International Current Sensors Product Portfolio

13.6.3 Honeywell International Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.7 Infineon Technologies

13.7.1 Infineon Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Infineon Technologies Current Sensors Product Portfolio

13.7.3 Infineon Technologies Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 Kohshin Electric Corporation

13.8.1 Kohshin Electric Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 Kohshin Electric Corporation Current Sensors Product Portfolio

13.8.3 Kohshin Electric Corporation Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 Sensitec

13.9.1 Sensitec Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Sensitec Current Sensors Product Portfolio

13.9.3 Sensitec Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 Pulse Electronics Corporation

13.10.1 Pulse Electronics Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 Pulse Electronics Corporation Current Sensors Product Portfolio

13.10.3 Pulse Electronics Corporation Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.11 MultiDimension Technology

13.11.1 MultiDimension Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 MultiDimension Technology Current Sensors Product Portfolio

13.11.3 MultiDimension Technology Current Sensors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 Current Sensors Industry Chain Analysis

14.2 Current Sensors Industry Raw Material and Suppliers Analysis

14.2.1 Current Sensors Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Current Sensors Typical Downstream Customers

14.4 Current Sensors Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global Current Sensors Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Current Sensors Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Current Sensors Industry Development Status

Table 4: Current Sensors Industry Development Trends

Table 5: Global Current Sensors Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Current Sensors Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Current Sensors Revenue Market Share by Region (2020-2025)

Table 8: Global Current Sensors Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Current Sensors Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Current Sensors Sales by Region (2020-2025) & (M Pcs)

Table 11: Global Current Sensors Sales Market Share by Region (2020-2025)

Table 12: Global Current Sensors Sales Forecast by Region (2026-2032) & (M Pcs)

Table 13: Global Current Sensors Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Current Sensors Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Current Sensors Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Current Sensors Sales Analysis by Type (2020-2025) & (M Pcs)

Table 17: Global Current Sensors Sales Analysis Forecast by Type (2026-2032) & (M Pcs)

Table 18: Global Current Sensors Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Current Sensors Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global Current Sensors Sales Analysis by Application (2020-2025) & (M Pcs)

Table 21: Global Current Sensors Sales Analysis Forecast by Application (2026-2032) & (M Pcs)

Table 22: Key Current Sensors Players in North America

Table 23: North America Current Sensors Sales by Type (2020-2025) & (M Pcs)

Table 24: North America Current Sensors Sales by Type (2026-2032) & (M Pcs)

Table 25: North America Current Sensors Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Current Sensors Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Current Sensors Sales by Application (2020-2025) & (M Pcs)

Table 28: North America Current Sensors Sales by Application (2026-2032) & (M Pcs)

Table 29: North America Current Sensors Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Current Sensors Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Current Sensors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Current Sensors Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Current Sensors Sales Market Size by Country (2020-2025) & (M Pcs)

Table 34: North America Current Sensors Sales Market Size by Country (2026-2032) & (M Pcs)

Table 35: Key Current Sensors Players in Europe

Table 36: Europe Current Sensors Sales by Type (2020-2025) & (M Pcs)

Table 37: Europe Current Sensors Sales by Type (2026-2032) & (M Pcs)

Table 38: Europe Current Sensors Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Current Sensors Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe Current Sensors Sales by Application (2020-2025) & (M Pcs)

Table 41: Europe Current Sensors Sales by Application (2026-2032) & (M Pcs)

Table 42: Europe Current Sensors Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe Current Sensors Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe Current Sensors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe Current Sensors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe Current Sensors Sales Market Size by Country (2020-2025) & (M Pcs)

Table 47: Europe Current Sensors Sales Market Size Forecast by Country (2026-2032) & (M Pcs)

Table 48: Key Current Sensors Players in China

Table 49: China Current Sensors Sales by Type (2020-2025) & (M Pcs)

Table 50: China Current Sensors Sales by Type (2026-2032) & (M Pcs)

Table 51: China Current Sensors Revenue by Type (2020-2025) & (US\$ Million)

- Table 52: China Current Sensors Revenue by Type (2026-2032) & (US\$ Million)
- Table 53: China Current Sensors Sales by Application (2020-2025) & (M Pcs)
- Table 54: China Current Sensors Sales by Application (2026-2032) & (M Pcs)
- Table 55: China Current Sensors Revenue by Application (2020-2025) & (US\$ Million)
- Table 56: China Current Sensors Revenue by Application (2026-2032) & (US\$ Million)
- Table 57: Key Current Sensors Players in APAC (excl. China)
- Table 58: APAC (excl. China) Current Sensors Sales by Type (2020-2025) & (M Pcs)
- Table 59: APAC (excl. China) Current Sensors Sales by Type (2026-2032) & (M Pcs)
- Table 60: APAC (excl. China) Current Sensors Revenue by Type (2020-2025) & (US\$ Million)
- Table 61: APAC (excl. China) Current Sensors Revenue by Type (2026-2032) & (US\$ Million)
- Table 62: APAC (excl. China) Current Sensors Sales by Application (2020-2025) & (M Pcs)
- Table 63: APAC (excl. China) Current Sensors Sales by Application (2026-2032) & (M Pcs)
- Table 64: APAC (excl. China) Current Sensors Revenue by Application (2020-2025) & (US\$ Million)
- Table 65: APAC (excl. China) Current Sensors Revenue by Application (2026-2032) & (US\$ Million)
- Table 66: APAC (excl. China) Current Sensors Revenue Market Size by Country (2020-2025) & (US\$ Million)
- Table 67: APAC (excl. China) Current Sensors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)
- Table 68: APAC (excl. China) Current Sensors Sales Market Size by Country (2020-2025) & (M Pcs)
- Table 69: APAC (excl. China) Current Sensors Sales Market Size Forecast by Country (2026-2032) & (M Pcs)
- Table 70: Key Current Sensors Players in Latin America
- Table 71: Latin America Current Sensors Sales by Type (2020-2025) & (M Pcs)
- Table 72: Latin America Current Sensors Sales by Type (2026-2032) & (M Pcs)
- Table 73: Latin America Current Sensors Revenue by Type (2020-2025) & (US\$ Million)
- Table 74: Latin America Current Sensors Revenue by Type (2026-2032) & (US\$ Million)
- Table 75: Latin America Current Sensors Sales by Application (2020-2025) & (M Pcs)
- Table 76: Latin America Current Sensors Sales by Application (2026-2032) & (M Pcs)
- Table 77: Latin America Current Sensors Revenue by Application (2020-2025) & (US\$ Million)
- Table 78: Latin America Current Sensors Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Current Sensors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Current Sensors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Current Sensors Sales Market Size by Country (2020-2025) & (M Pcs)

Table 82: Latin America Current Sensors Sales Market Size Forecast by Country (2026-2032) & (M Pcs)

Table 83: Key Current Sensors Players in Middle East & Africa

Table 84: Middle East & Africa Current Sensors Sales by Type (2020-2025) & (M Pcs)

Table 85: Middle East & Africa Current Sensors Sales by Type (2026-2032) & (M Pcs)

Table 86: Middle East & Africa Current Sensors Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa Current Sensors Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa Current Sensors Sales by Application (2020-2025) & (M Pcs)

Table 89: Middle East & Africa Current Sensors Sales by Application (2026-2032) & (M Pcs)

Table 90: Middle East & Africa Current Sensors Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa Current Sensors Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa Current Sensors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa Current Sensors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa Current Sensors Sales Market Size by Country (2020-2025) & (M Pcs)

Table 95: Middle East & Africa Current Sensors Sales Market Size Forecast by Country (2026-2032) & (M Pcs)

Table 96: Global Current Sensors Market Sales by Key Manufacturers (2021-2025) & (M Pcs)

Table 97: Global Current Sensors Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global Current Sensors Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global Current Sensors Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/K Pcs)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: Asahi Kasei Microdevices Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: Asahi Kasei Microdevices Corporation Current Sensors Product Portfolio

Table 105: Asahi Kasei Microdevices Corporation Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 106: Allegro Microsystems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: Allegro Microsystems Current Sensors Product Portfolio

Table 108: Allegro Microsystems Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 109: Melexis NV Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Melexis NV Current Sensors Product Portfolio

Table 111: Melexis NV Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 112: TDK Micronas Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: TDK Micronas Current Sensors Product Portfolio

Table 114: TDK Micronas Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 115: LEM Holding Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: LEM Holding Current Sensors Product Portfolio

Table 117: LEM Holding Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 118: Honeywell International Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Honeywell International Current Sensors Product Portfolio

Table 120: Honeywell International Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 121: Infineon Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Infineon Technologies Current Sensors Product Portfolio

Table 123: Infineon Technologies Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 124: Kohshin Electric Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: Kohshin Electric Corporation Current Sensors Product Portfolio

Table 126: Kohshin Electric Corporation Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 127: Sensitec Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Sensitec Current Sensors Product Portfolio

Table 129: Sensitec Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 130: Pulse Electronics Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: Pulse Electronics Corporation Current Sensors Product Portfolio

Table 132: Pulse Electronics Corporation Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 133: MultiDimension Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: MultiDimension Technology Current Sensors Product Portfolio

Table 135: MultiDimension Technology Current Sensors Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 136: Upstream Key Raw Material Price List

Table 137: Current Sensors Raw Material Suppliers and Contact Information

Table 138: Current Sensors Typical Customer List

Table 139: Current Sensors Distributors List

List Of Figures

LIST OF FIGURES

- Figure 1: Current Sensors Product Pictures
- Figure 2: Hall-Effect Current Sensors Picture Scope
- Figure 3: Shunt Current Sensors Picture Scope
- Figure 4: TMR Current Sensors Picture Scope
- Figure 5: Others Picture Scope
- Figure 6: Industrial Automation Picture Scope
- Figure 7: Power Electronics Picture Scope
- Figure 8: Automotive Systems Picture Scope
- Figure 9: Renewable Energy Systems Picture Scope
- Figure 10: Consumer Electronics Picture Scope
- Figure 11: Medical Devices Picture Scope
- Figure 12: Aerospace and Defense Picture Scope
- Figure 13: Other Picture Scope
- Figure 14: Global Current Sensors Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)
- Figure 15: Global Current Sensors Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)
- Figure 16: Global Current Sensors Market Sales and Growth Rate Analysis (2020-2032) & (M Pcs)
- Figure 17: Global Current Sensors Market Price Trend Analysis (2020-2032) & (USD/K Pcs)
- Figure 18: Global Current Sensors Market Size by Region (2020-2032) & (US\$ Million)
- Figure 19: Global Current Sensors Market Share Scenario by Region in Percentage: 2025 Versus 2032
- Figure 20: Global Current Sensors Sales Price by Region (2020-2032) & (M Pcs)
- Figure 21: North America Current Sensors Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 22: North America Current Sensors Revenue Market Share by Players in 2024
- Figure 23: North America Current Sensors Sales Market Share by Type (2020-2032)
- Figure 24: North America Current Sensors Revenue Market Share by Type (2020-2032)
- Figure 25: North America Current Sensors Sales Market Share by Application (2020-2032)
- Figure 26: North America Current Sensors Revenue Market Share by Application (2020-2032)
- Figure 27: US Current Sensors Revenue (2020-2032) & (US\$ Million)

- Figure 28:Canada Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 29:Europe Current Sensors Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 30:Europe Current Sensors Revenue Market Share by Players in 2024
- Figure 31:Europe Current Sensors Sales Market Share by Type (2020-2032)
- Figure 32:Europe Current Sensors Revenue Market Share by Type (2020-2032)
- Figure 33:Europe Current Sensors Sales Market Share by Application (2020-2032)
- Figure 34:Europe Current Sensors Revenue Market Share by Application (2020-2032)
- Figure 35:Germany Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 36:France Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 37:United Kingdom Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 38:Italy Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 39:Spain Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 40:Benelux Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 41:China Current Sensors Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 42:China Current Sensors Revenue Market Share by Players in 2024
- Figure 43:China Current Sensors Sales Market Share by Type (2020-2032)
- Figure 44:China Current Sensors Revenue Market Share by Type (2020-2032)
- Figure 45:China Current Sensors Sales Market Share by Application (2020-2032)
- Figure 46:China Current Sensors Revenue Market Share by Application (2020-2032)
- Figure 47:APAC (excl. China) Current Sensors Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 48:APAC (excl. China) Current Sensors Revenue Market Share by Players in 2024
- Figure 49:APAC (excl. China) Current Sensors Sales Market Share by Type (2020-2032)
- Figure 50:APAC (excl. China) Current Sensors Revenue Market Share by Type (2020-2032)
- Figure 51:APAC (excl. China) Current Sensors Sales Market Share by Application (2020-2032)
- Figure 52:APAC (excl. China) Current Sensors Revenue Market Share by Application (2020-2032)
- Figure 53:Japan Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 54:South Korea Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 55:India Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 56:Australia Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 57:Southeast Asia Current Sensors Revenue (2020-2032) & (US\$ Million)
- Figure 58:Latin America Current Sensors Market Size and Growth Rate (2020-2032) &

(US\$ Million)

Figure 59:Latin America Current Sensors Revenue Market Share by Players in 2024

Figure 60:Latin America Current Sensors Sales Market Share by Type (2020-2032)

Figure 61:Latin America Current Sensors Revenue Market Share by Type (2020-2032)

Figure 62:Latin America Current Sensors Sales Market Share by Application
(2020-2032)

Figure 63:Latin America Current Sensors Revenue Market Share by Application
(2020-2032)

Figure 64:Mexico Current Sensors Revenue (2020-2032) & (US\$ Million)

Figure 65:Brazil Current Sensors Revenue (2020-2032) & (US\$ Million)

Figure 66:Middle East & Africa Current Sensors Market Size and Growth Rate
(2020-2032) & (US\$ Million)

Figure 67:Middle East & Africa Current Sensors Revenue Market Share by Players in
2024

Figure 68:Middle East & Africa Current Sensors Sales Market Share by Type
(2020-2032)

Figure 69:Middle East & Africa Current Sensors Revenue Market Share by Type
(2020-2032)

Figure 70:Middle East & Africa Current Sensors Sales Market Share by Application
(2020-2032)

Figure 71:Middle East & Africa Current Sensors Revenue Market Share by Application
(2020-2032)

Figure 72:Saudi Arabia Current Sensors Revenue (2020-2032) & (US\$ Million)

Figure 73:South Africa Current Sensors Revenue (2020-2032) & (US\$ Million)

Figure 74:Global Current Sensors Sales Market Share by Key Manufacturers in 2024

Figure 75:Global Current Sensors Revenue Market Share by Key Manufacturers in
2024

Figure 76:Global Current Sensors Industry Competition Landscape

Figure 77:Current Sensors Industry Chain Analysis

Figure 78:Bottom-Up and Top-Down Research Methods

Figure 79:Key Interview Objectives

Figure 80:Data Cross Validation

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