

# **Current Sensor Market Size, Share, Trends and Forecast by Type, Current Sensing Technology, Sensing Method, Application, End Use, and Region, 2026-2034**

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## **Abstracts**

The global current sensor market size was valued at USD 2.3 Billion in 2025. Looking forward, IMARC Group estimates the market to reach USD 3.8 Billion by 2034, exhibiting a CAGR of 5.35% during 2026-2034. Asia-Pacific currently dominates the market, holding a significant market share of over 32.0% in 2025. The growing demand for energy-efficient devices, increasing adoption of electric vehicles, and advancements in sensor technology are factors driving the global current sensor market share across the region.

With the escalating demand for energy-efficient systems across various industries like consumer electronics, automotive, and industrial automation, there has been a positive impact on current sensor industry. Electric vehicles (EVs) and hybrid electric vehicles (HEVs) have extensively increased the requirement for accurate current sensing solutions for battery management and motor control. With the integration of renewable sources such as solar and wind, more advanced current sensors are being implemented to optimize power monitoring for proper grid integration. The current sensor market growth increases further due to increased demand from the adoption of smart grids and energy storage systems as correct current measurement is important in maximizing energy utilization. In the consumer electronics domain, expansion of the IoT devices, smartphones, and wearables calls for the use of compact, high-performing current sensors for better battery optimization. According to the IMARC Group, the global smartphone market is expected to reach 1,998.2 Million Units by 2033.

Industrial automation and robotics also drive the current sensor market demand, since

real-time monitoring of current will improve efficiency and safety in the operation. Improvements in technological aspects, including Hall-effect and magneto-resistive sensors, are yielding better accuracy and response time while miniaturization is making it more suitable for various applications. Stringent government regulations on energy efficiency and the electrical safety standard are also making industries opt for advanced current sensing solutions. Increased attention in predictive maintenance and condition monitoring within industries is further building the adoption of current sensors to ensure reliability and efficiency in other applications as well.

## CURRENT SENSOR MARKET TRENDS:

### Increasing demand for data centers and cloud computing

The rapid growth in the expansion of data centers and cloud computing infrastructure is an important driver for the global current sensors market. Data centers need efficient power management and monitoring solutions to ensure an uninterrupted operation with the exponential growth of digital data, artificial intelligence, and high-performance computing. Current sensors play an important role in data centers to enable real-time monitoring of the current, as well as facilitate load balancing and fault detection for preventing system failure and efficient use of energy. High-precision current sensors also become critical components in hyperscale data centers of Amazon, Google, and Microsoft, in controlling massive electrical loads. As energy prices and environmental factors continue to climb, data center operators are turning to advanced current sensing solutions for power efficiency improvements, strict compliance with regulatory standards, and decreased carbon footprints. The increased adoption of edge computing and distributed data centers create a positive current sensor market outlook.

### Growth in industrial electrification and smart manufacturing

Another significant driver for the current sensors market is the growing trend towards industrial electrification and smart manufacturing. With industries switching to electrically powered machines and automated production lines, it becomes essential to monitor current in real time for efficiency, safety, and reliability. Industry 4.0 has resulted in the development of smart factories with interconnected devices, robotics, and automation systems requiring accurate current sensing for operational stability. Predictive maintenance, with current sensors working real-time, also helps avoid a lot of the equipment failure with reduced downtime to save on time and costs for improved productivity. In addition, the installation of current sensors into industrial motors, drives, and control systems boosts energy management to optimize power supply. The

demand for highly accurate, miniaturized current sensors with wireless connectivity is going to increase rapidly in the wake of companies becoming increasingly focused on sustainability and energy efficiency.

#### Advancements in medical devices and healthcare equipment

Fuelling the health care industry's high-precision current sensors requirements is the steadily rising need for advanced, complex medical devices and equipment. Modern medical technologies, such as MRI scanners, CT machines, ventilators, and robotic surgical systems, are highly dependent on stable and efficient power management to ensure that all devices function correctly and failure-free. Current sensors are a critical component in these applications, monitoring power consumption, fault detection, and preventing electrical malfunctions. With the rising adoption of wearable health monitoring devices, such as smartwatches and biosensors, compact and low-power current sensors are increasingly becoming a requirement for battery optimization and real-time data collection. According to the IMARC Group, the global wearable medical devices market is expected to reach USD 149.08 Billion by 2033.

#### CURRENT SENSOR INDUSTRY SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the global current sensor market, along with forecasts at the global, regional, and country levels from 2026-2034. The market has been categorized based on type, current sensing technology, sensing method, application, and end use.

#### Analysis by Type:

Open Loop

Closed Loop

Open loop dominates the market in 2025, due to their cost effectiveness, simplicity, and applicability for a wide variety of applications, the open-loop current sensors segment still reigns large in the market. Open-loop sensors based on Hall-effect or magneto-resistive technology are preferable because of their high feasibility, low power consumption, small size, and ease of integration into electronic circuits. These sensors offer the required accuracy in applications such as battery monitoring, electric vehicle power management, industrial automation, and consumer electronics. Their high

frequency operation and tolerance to external electromagnetic interference also add to their advantages in high-speed power electronics and renewable energy systems.

Analysis by Current Sensing Technology:

Hall Effect

Current Transformer

Flux Gate

Rogowski Coil

Hall effect holds the maximum number of shares on account of its superior advantages in accuracy, reliability, and versatility across various applications. These sensors do not wear out easily and are highly durable as they can measure AC and DC currents without physical contact, unlike shunt resistors or transformers. They are relatively small in size, inexpensive, and can function in harsh environments, such as high temperatures or electromagnetic interference, which makes them very popular. Furthermore, advancements in semiconductor technology improve the sensitivity of semiconductors and integration with digital signal processing, thus making them much more efficient for smart grids, data centers, and IoT applications. All these advantages place Hall-effect sensors as the leader in the current sensing market.

Analysis by Sensing Method:

Direct Current Sensing

Indirect Current Sensing

Direct current sensing dominates the market holding 58.7% of market shares, due to its paramount role in several high-growth applications, such as electric vehicles (EVs), renewable energy systems, industrial automation, and consumer electronics. This is because DC sensing is highly critical for efficient battery management in EVs and energy storage systems to ensure proper charging/discharging and health of the batteries. This in itself fuels demand because DC sensors are required for monitoring photovoltaic (PV) panels and optimizing energy conversion. Furthermore, DC-powered

systems in industrial automation need constant monitoring of current for efficiency, safety, and predictive maintenance.

Analysis by Application:

Motor Drive

Converter and Inverter

Battery Management

Uninterrupted Power Supply (UPS) and Switched-Mode Power Supply (SMPS)

Starter and Generators

Grid Infrastructure

Others

Motor drive dominates the market in 2025, on account of the widespread use in automotive, industrial automation, consumer electronics, and HVAC systems. Electric motors form an integral part of many applications, ranging from factory machinery to robotics, home appliances, and electric vehicles (EVs). Present-day current sensors significantly play a key role in the application of motor drives by permitting an accurate tracking and control of the electric current flowing through an apparatus, while achieving energy efficiency and performance enhancement. Moreover, an increasing implementation of variable frequency drives (VFDs) for controlling industrial motors' operating speeds to raise productivity levels drives up the usage of current sensors.

Analysis by End Use:

Access the comprehensive market breakdown Request Sampl

Automotive

Consumer Electronics

Industrial

Healthcare

Telecom

Renewable Energy

Others

Industrial hold maximum number of shares on account of the high penetration of automation, electrification, and smart manufacturing technologies. Industries rely on current sensors for power monitoring, motor control, and predictive maintenance to enhance operational efficiency and prevent equipment failures. With the evolution of Industry 4.0, smart factories, and industrial IoT (IIoT), industries are including sophisticated current sensors that help reduce downtime, increase efficiency, and increase productivity as a whole. Additionally, an increase in concerns related to sustainability and energy efficiency drives industries toward utilizing high-precision current sensors to effectively manage power in machinery, robotics, and control systems.

#### Regional Analysis:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

In 2025, Asia-Pacific accounted for the largest market share of over 32.0%, primarily due to rapid industrialization, a strong electronics manufacturing base, and increasing adoption of electric vehicles. Countries like China, Japan, South Korea, and India are major hubs for consumer electronics, automotive, and industrial automation, all of which require advanced current sensing solutions. The semiconductor and battery manufacturing sectors further dominate this region, which boosts demand for accurate

current monitoring in various power management applications. Asia Pacific is also seeing a great shift towards renewable energy sources, especially in solar and wind energy, where current sensors play an important role in the energy conversion mechanism and even in grid stability.

## KEY REGIONAL TAKEAWAYS:

### UNITED STATES CURRENT SENSOR MARKET ANALYSIS

The U.S. sensor market is poised for robust growth, driven by several key factors. A major contributor is the increasing adoption of the Industrial Internet of Things (IIoT), with the U.S. industrial IoT market valued at USD 135.6 Billion in 2024. According to IMARC Group, it is projected to reach USD 568.9 Billion by 2033, reflecting a compound annual growth rate (CAGR) of 17.1% from 2025 to 2033. This surge is largely attributed to the growing demand for sensors to enable connectivity and data exchange across industries, such as manufacturing, healthcare, and consumer electronics. The automotive sector's transition to electric and autonomous vehicles further amplifies sensor demand, especially in safety and performance systems. Additionally, the healthcare industry's reliance on wearable devices and medical equipment using sensors for monitoring and diagnostics plays a significant role in market expansion. Government investments in smart infrastructure and defense technologies are also spurring sensor development and deployment. Furthermore, the integration of sensors with artificial intelligence (AI) and machine learning is driving innovation and creating new opportunities, cementing the U.S. as a key player in the global sensor market.

### ASIA PACIFIC CURRENT SENSOR MARKET ANALYSIS

The Asia-Pacific (APAC) region is experiencing significant growth in the sensor market, driven by rapid industrialization and technological advancements. According to industry reports, over 1 Billion smartphone users in the region are fueling the demand for sensors in consumer electronics. A major factor in this growth is the widespread adoption of automation and Industry 4.0 practices, particularly in manufacturing, where sensors play a crucial role in enhancing operational efficiency. Additionally, the booming automotive sector in countries like China and Japan increases the need for sensors in vehicle safety and performance. The healthcare sector's growing reliance on sensor-enabled medical devices and wearables for monitoring and diagnostics is further driving market expansion. Government initiatives promoting smart cities and infrastructure development are also creating new opportunities for sensor applications across APAC. These factors combine to position APAC as a leading player in the global sensor

market.

## EUROPE CURRENT SENSOR MARKET ANALYSIS

Europe's sensor market is witnessing substantial growth, driven by several key factors. According to the European Union, more than three-quarters of Europeans (78%) approve that environmental issues have an immediate effect on their daily lives and health. This heightened awareness is contributing to the growing demand for sensors in environmental monitoring, particularly in applications such as air quality control and waste management. Additionally, the region's strong emphasis on industrial automation and the adoption of Industry 4.0 technologies is a significant driver, as sensors are essential for improving manufacturing processes and ensuring product quality. The automotive industry's transition to electric and autonomous vehicles is also driving sensor demand for vehicle safety and performance applications. Moreover, Europe's commitment to sustainability is further propelling the adoption of sensors in renewable energy sectors, including wind and solar power, to optimize energy production. The healthcare sector's increasing reliance on sensor-enabled medical devices for monitoring and diagnostics is another contributing factor. Finally, the region's focus on smart cities and infrastructure development is creating new opportunities for sensor applications in urban planning, traffic management, and public safety, positioning Europe as a key player in the global sensor market.

## LATIN AMERICA CURRENT SENSOR MARKET ANALYSIS

Latin America's sensor market is expanding, driven by increased industrialization and the adoption of automation technologies. According to UNIDO, Latin America's manufacturing exports account for only 4% of global trade, highlighting the region's potential for growth in various sectors, including sensor applications. The shift towards smart manufacturing practices is increasing the demand for sensors to enhance operational efficiency and product quality. Additionally, the growth of the automotive sector in countries like Brazil and Mexico is driving sensor demand for vehicle safety and performance. Government initiatives promoting infrastructure development and smart cities are further boosting sensor market opportunities across the region.

## MIDDLE EAST AND AFRICA CURRENT SENSOR MARKET ANALYSIS

The Middle East and Africa (MEA) region is experiencing growth in the sensor market, driven by key industrial sectors. The UAE oil and gas market, anticipated to exhibit a compound annual growth rate (CAGR) of 6.30% from 2025 to 2033, is a significant

driver, as sensors are vital for exploring, producing, and safety monitoring in this sector. Additionally, the region's focus on infrastructure development and smart city projects is creating demand for sensors in urban planning, traffic management, and public safety applications. The growing adoption of renewable energy, particularly solar and wind, is also contributing to the market expansion.

#### COMPETITIVE LANDSCAPE:

The key players operating in the current sensors market have been driving its growth through new technologies, strategic partnerships, and increased production. Companies such as Texas Instruments, Allegro MicroSystems, Honeywell, and Infineon Technologies are engaging in high spending on R&D to develop the most precise and energy-efficient miniature current sensors dedicated to electric vehicle applications, industrial automation, and renewable energy application. Many players are focusing on the integration of advanced technologies such as Hall-effect and magneto-resistive sensing to enhance accuracy and reliability. Strategic collaborations with automotive and semiconductor companies are helping expand market reach and innovation. Major manufacturers are also increasing production capacity, particularly in Asia Pacific, to meet the rising demand from consumer electronics and automotive industries. Another factor shaping market strategies is efforts toward sustainability, including the development of environment-friendly and low-power sensors. Additionally, companies are keen on mergers and acquisitions so as to add diversity and thus remain in a strong competitive position within this market.

The report provides a comprehensive analysis of the competitive landscape in the current sensor market with detailed profiles of all major companies, including:

Aceinna Inc.

Allegro MicroSystems Inc. (Sanken Electric Co. Ltd.)

Asahi Kasei Microdevices Corporation (Asahi Kasei Corporation)

Eaton Corporation Plc

Honeywell International Inc.

Infineon Technologies AG

LEM Group

Melexis NV

Sensitec GmbH

Tamura Corporation

TDK Corporation

Texas Instruments Incorporated

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL CURRENT SENSOR MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY TYPE**

- 6.1 Open Loop
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Closed Loop
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast

## **7 MARKET BREAKUP BY CURRENT SENSING TECHNOLOGY**

### 7.1 Hall Effect

#### 7.1.1 Market Trends

#### 7.1.2 Market Forecast

### 7.2 Current Transformer

#### 7.2.1 Market Trends

#### 7.2.2 Market Forecast

### 7.3 Flux Gate

#### 7.3.1 Market Trends

#### 7.3.2 Market Forecast

### 7.4 Rogowski Coil

#### 7.4.1 Market Trends

#### 7.4.2 Market Forecast

## **8 MARKET BREAKUP BY SENSING METHOD**

### 8.1 Direct Current Sensing

#### 8.1.1 Market Trends

#### 8.1.2 Market Forecast

### 8.2 Indirect Current Sensing

#### 8.2.1 Market Trends

#### 8.2.2 Market Forecast

## **9 MARKET BREAKUP BY APPLICATION**

### 9.1 Motor Drive

#### 9.1.1 Market Trends

#### 9.1.2 Market Forecast

### 9.2 Converter and Inverter

#### 9.2.1 Market Trends

#### 9.2.2 Market Forecast

### 9.3 Battery Management

#### 9.3.1 Market Trends

#### 9.3.2 Market Forecast

### 9.4 Uninterrupted Power Supply (UPS) and Switched-Mode Power Supply (SMPS)

#### 9.4.1 Market Trends

#### 9.4.2 Market Forecast

### 9.5 Starter and Generators

- 9.5.1 Market Trends
- 9.5.2 Market Forecast
- 9.6 Grid Infrastructure
  - 9.6.1 Market Trends
  - 9.6.2 Market Forecast
- 9.7 Others
  - 9.7.1 Market Trends
  - 9.7.2 Market Forecast

## **10 MARKET BREAKUP BY END USE**

- 10.1 Automotive
  - 10.1.1 Market Trends
  - 10.1.2 Market Forecast
- 10.2 Consumer Electronics
  - 10.2.1 Market Trends
  - 10.2.2 Market Forecast
- 10.3 Industrial
  - 10.3.1 Market Trends
  - 10.3.2 Market Forecast
- 10.4 Healthcare
  - 10.4.1 Market Trends
  - 10.4.2 Market Forecast
- 10.5 Telecom
  - 10.5.1 Market Trends
  - 10.5.2 Market Forecast
- 10.6 Renewable Energy
  - 10.6.1 Market Trends
  - 10.6.2 Market Forecast
- 10.7 Others
  - 10.7.1 Market Trends
  - 10.7.2 Market Forecast

## **11 MARKET BREAKUP BY REGION**

- 11.1 North America
  - 11.1.1 United States
    - 11.1.1.1 Market Trends
    - 11.1.1.2 Market Forecast

- 11.1.2 Canada
  - 11.1.2.1 Market Trends
  - 11.1.2.2 Market Forecast
- 11.2 Asia-Pacific
  - 11.2.1 China
    - 11.2.1.1 Market Trends
    - 11.2.1.2 Market Forecast
  - 11.2.2 Japan
    - 11.2.2.1 Market Trends
    - 11.2.2.2 Market Forecast
  - 11.2.3 India
    - 11.2.3.1 Market Trends
    - 11.2.3.2 Market Forecast
  - 11.2.4 South Korea
    - 11.2.4.1 Market Trends
    - 11.2.4.2 Market Forecast
  - 11.2.5 Australia
    - 11.2.5.1 Market Trends
    - 11.2.5.2 Market Forecast
  - 11.2.6 Indonesia
    - 11.2.6.1 Market Trends
    - 11.2.6.2 Market Forecast
  - 11.2.7 Others
    - 11.2.7.1 Market Trends
    - 11.2.7.2 Market Forecast
- 11.3 Europe
  - 11.3.1 Germany
    - 11.3.1.1 Market Trends
    - 11.3.1.2 Market Forecast
  - 11.3.2 France
    - 11.3.2.1 Market Trends
    - 11.3.2.2 Market Forecast
  - 11.3.3 United Kingdom
    - 11.3.3.1 Market Trends
    - 11.3.3.2 Market Forecast
  - 11.3.4 Italy
    - 11.3.4.1 Market Trends
    - 11.3.4.2 Market Forecast
  - 11.3.5 Spain

- 11.3.5.1 Market Trends
- 11.3.5.2 Market Forecast
- 11.3.6 Russia
  - 11.3.6.1 Market Trends
  - 11.3.6.2 Market Forecast
- 11.3.7 Others
  - 11.3.7.1 Market Trends
  - 11.3.7.2 Market Forecast
- 11.4 Latin America
  - 11.4.1 Brazil
    - 11.4.1.1 Market Trends
    - 11.4.1.2 Market Forecast
  - 11.4.2 Mexico
    - 11.4.2.1 Market Trends
    - 11.4.2.2 Market Forecast
  - 11.4.3 Others
    - 11.4.3.1 Market Trends
    - 11.4.3.2 Market Forecast
- 11.5 Middle East and Africa
  - 11.5.1 Market Trends
  - 11.5.2 Market Breakup by Country
  - 11.5.3 Market Forecast

## **12 DRIVERS, RESTRAINTS, AND OPPORTUNITIES**

- 12.1 Overview
- 12.2 Drivers
- 12.3 Restraints
- 12.4 Opportunities

## **13 VALUE CHAIN ANALYSIS**

## **14 PORTERS FIVE FORCES ANALYSIS**

- 14.1 Overview
- 14.2 Bargaining Power of Buyers
- 14.3 Bargaining Power of Suppliers
- 14.4 Degree of Competition
- 14.5 Threat of New Entrants

## 14.6 Threat of Substitutes

## 15 PRICE ANALYSIS

## 16 COMPETITIVE LANDSCAPE

### 16.1 Market Structure

### 16.2 Key Players

### 16.3 Profiles of Key Players

#### 16.3.1 Aceinna Inc.

##### 16.3.1.1 Company Overview

##### 16.3.1.2 Product Portfolio

#### 16.3.2 Allegro MicroSystems Inc. (Sanken Electric Co. Ltd.)

##### 16.3.2.1 Company Overview

##### 16.3.2.2 Product Portfolio

#### 16.3.3 Asahi Kasei Microdevices Corporation (Asahi Kasei Corporation)

##### 16.3.3.1 Company Overview

##### 16.3.3.2 Product Portfolio

#### 16.3.4 Eaton Corporation plc

##### 16.3.4.1 Company Overview

##### 16.3.4.2 Product Portfolio

##### 16.3.4.3 Financials

##### 16.3.4.4 SWOT Analysis

#### 16.3.5 Honeywell International Inc.

##### 16.3.5.1 Company Overview

##### 16.3.5.2 Product Portfolio

##### 16.3.5.3 Financials

##### 16.3.5.4 SWOT Analysis

#### 16.3.6 Infineon Technologies AG

##### 16.3.6.1 Company Overview

##### 16.3.6.2 Product Portfolio

##### 16.3.6.3 Financials

##### 16.3.6.4 SWOT Analysis

#### 16.3.7 LEM Group

##### 16.3.7.1 Company Overview

##### 16.3.7.2 Product Portfolio

##### 16.3.7.3 Financials

#### 16.3.8 Melexis NV

##### 16.3.8.1 Company Overview

- 16.3.8.2 Product Portfolio
- 16.3.8.3 Financials
- 16.3.8.4 SWOT Analysis
- 16.3.9 Sensitec GmbH
  - 16.3.9.1 Company Overview
  - 16.3.9.2 Product Portfolio
- 16.3.10 Tamura Corporation
  - 16.3.10.1 Company Overview
  - 16.3.10.2 Product Portfolio
  - 16.3.10.3 Financials
- 16.3.11 TDK Corporation
  - 16.3.11.1 Company Overview
  - 16.3.11.2 Product Portfolio
  - 16.3.11.3 Financials
  - 16.3.11.4 SWOT Analysis
- 16.3.12 Texas Instruments Incorporated
  - 16.3.12.1 Company Overview
  - 16.3.12.2 Product Portfolio
  - 16.3.12.3 Financials
  - 16.3.12.4 SWOT Analysis

## List Of Tables

### LIST OF TABLES

Table 1: Global: Current Sensor Market: Key Industry Highlights, 2025 & 2034

Table 2: Global: Current Sensor Market Forecast: Breakup by Type (in Million USD), 2026-2034

Table 3: Global: Current Sensor Market Forecast: Breakup by Current Sensing Technology (in Million USD), 2026-2034

Table 4: Global: Current Sensor Market Forecast: Breakup by Sensing Method (in Million USD), 2026-2034

Table 5: Global: Current Sensor Market Forecast: Breakup by Application (in Million USD), 2026-2034

Table 6: Global: Current Sensor Market Forecast: Breakup by End Use (in Million USD), 2026-2034

Table 7: Global: Current Sensor Market Forecast: Breakup by Region (in Million USD), 2026-2034

Table 8: Global: Current Sensor Market: Competitive Structure

Table 9: Global: Current Sensor Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Current Sensor Market: Major Drivers and Challenges

Figure 2: Global: Current Sensor Market: Sales Value (in Billion USD), 2020-2025

Figure 3: Global: Current Sensor Market Forecast: Sales Value (in Billion USD), 2026-2034

Figure 4: Global: Current Sensor Market: Breakup by Type (in %), 2025

Figure 5: Global: Current Sensor Market: Breakup by Current Sensing Technology (in %), 2025

Figure 6: Global: Current Sensor Market: Breakup by Sensing Method (in %), 2025

Figure 7: Global: Current Sensor Market: Breakup by Application (in %), 2025

Figure 8: Global: Current Sensor Market: Breakup by End Use (in %), 2025

Figure 9: Global: Current Sensor Market: Breakup by Region (in %), 2025

Figure 10: Global: Current Sensor (Open Loop) Market: Sales Value (in Million USD), 2020 & 2025

Figure 11: Global: Current Sensor (Open Loop) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 12: Global: Current Sensor (Closed Loop) Market: Sales Value (in Million USD), 2020 & 2025

Figure 13: Global: Current Sensor (Closed Loop) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 14: Global: Current Sensor (Hall Effect) Market: Sales Value (in Million USD), 2020 & 2025

Figure 15: Global: Current Sensor (Hall Effect) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 16: Global: Current Sensor (Current Transformer) Market: Sales Value (in Million USD), 2020 & 2025

Figure 17: Global: Current Sensor (Current Transformer) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 18: Global: Current Sensor (Flux Gate) Market: Sales Value (in Million USD), 2020 & 2025

Figure 19: Global: Current Sensor (Flux Gate) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 20: Global: Current Sensor (Rogowski Coil) Market: Sales Value (in Million USD), 2020 & 2025

Figure 21: Global: Current Sensor (Rogowski Coil) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 22: Global: Current Sensor (Direct Current Sensing) Market: Sales Value (in

Million USD), 2020 & 2025

Figure 23: Global: Current Sensor (Direct Current Sensing) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 24: Global: Current Sensor (Indirect Current Sensing) Market: Sales Value (in Million USD), 2020 & 2025

Figure 25: Global: Current Sensor (Indirect Current Sensing) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 26: Global: Current Sensor (Motor Drive) Market: Sales Value (in Million USD), 2020 & 2025

Figure 27: Global: Current Sensor (Motor Drive) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 28: Global: Current Sensor (Converter and Inverter) Market: Sales Value (in Million USD), 2020 & 2025

Figure 29: Global: Current Sensor (Converter and Inverter) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 30: Global: Current Sensor (Battery Management) Market: Sales Value (in Million USD), 2020 & 2025

Figure 31: Global: Current Sensor (Battery Management) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 32: Global: Current Sensor (Uninterrupted Power Supply (UPS) and Switched-Mode Power Supply (SMPS)) Market: Sales Value (in Million USD), 2020 & 2025

Figure 33: Global: Current Sensor (Uninterrupted Power Supply (UPS) and Switched-Mode Power Supply (SMPS)) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 34: Global: Current Sensor (Starter and Generators) Market: Sales Value (in Million USD), 2020 & 2025

Figure 35: Global: Current Sensor (Starter and Generators) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 36: Global: Current Sensor (Grid Infrastructure) Market: Sales Value (in Million USD), 2020 & 2025

Figure 37: Global: Current Sensor (Grid Infrastructure) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 38: Global: Current Sensor (Other Applications) Market: Sales Value (in Million USD), 2020 & 2025

Figure 39: Global: Current Sensor (Other Applications) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 40: Global: Current Sensor (Automotive) Market: Sales Value (in Million USD), 2020 & 2025

Figure 41: Global: Current Sensor (Automotive) Market Forecast: Sales Value (in Million

USD), 2026-2034

Figure 42: Global: Current Sensor (Consumer Electronics) Market: Sales Value (in Million USD), 2020 & 2025

Figure 43: Global: Current Sensor (Consumer Electronics) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 44: Global: Current Sensor (Industrial) Market: Sales Value (in Million USD), 2020 & 2025

Figure 45: Global: Current Sensor (Industrial) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 46: Global: Current Sensor (Healthcare) Market: Sales Value (in Million USD), 2020 & 2025

Figure 47: Global: Current Sensor (Healthcare) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 48: Global: Current Sensor (Telecom) Market: Sales Value (in Million USD), 2020 & 2025

Figure 49: Global: Current Sensor (Telecom) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 50: Global: Current Sensor (Renewable Energy) Market: Sales Value (in Million USD), 2020 & 2025

Figure 51: Global: Current Sensor (Renewable Energy) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 52: Global: Current Sensor (Other End Uses) Market: Sales Value (in Million USD), 2020 & 2025

Figure 53: Global: Current Sensor (Other End Uses) Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 54: North America: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 55: North America: Current Sensor Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 56: United States: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 57: United States: Current Sensor Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 58: Canada: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 59: Canada: Current Sensor Market Forecast: Sales Value (in Million USD), 2026-2034

Figure 60: Asia-Pacific: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 61: Asia-Pacific: Current Sensor Market Forecast: Sales Value (in Million USD),

2026-2034

Figure 62: China: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 63: China: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 64: Japan: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 65: Japan: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 66: India: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 67: India: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 68: South Korea: Current Sensor Market: Sales Value (in Million USD), 2020 &  
2025

Figure 69: South Korea: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 70: Australia: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 71: Australia: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 72: Indonesia: Current Sensor Market: Sales Value (in Million USD), 2020 &  
2025

Figure 73: Indonesia: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 74: Others: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 75: Others: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 76: Europe: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 77: Europe: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 78: Germany: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 79: Germany: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 80: France: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 81: France: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 82: United Kingdom: Current Sensor Market: Sales Value (in Million USD), 2020  
& 2025

Figure 83: United Kingdom: Current Sensor Market Forecast: Sales Value (in Million  
USD), 2026-2034

Figure 84: Italy: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 85: Italy: Current Sensor Market Forecast: Sales Value (in Million USD),

2026-2034

Figure 86: Spain: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 87: Spain: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 88: Russia: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 89: Russia: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 90: Others: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 91: Others: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 92: Latin America: Current Sensor Market: Sales Value (in Million USD), 2020 &  
2025

Figure 93: Latin America: Current Sensor Market Forecast: Sales Value (in Million  
USD), 2026-2034

Figure 94: Brazil: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 95: Brazil: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 96: Mexico: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 97: Mexico: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 98: Others: Current Sensor Market: Sales Value (in Million USD), 2020 & 2025

Figure 99: Others: Current Sensor Market Forecast: Sales Value (in Million USD),  
2026-2034

Figure 100: Middle East and Africa: Current Sensor Market: Sales Value (in Million  
USD), 2020 & 2025

Figure 101: Middle East and Africa: Current Sensor Market: Breakup by Country (in %),  
2025

Figure 102: Middle East and Africa: Current Sensor Market Forecast: Sales Value (in  
Million USD), 2026-2034

Figure 103: Global: Current Sensor Industry: Drivers, Restraints, and Opportunities

Figure 104: Global: Current Sensor Industry: Value Chain Analysis

Figure 105: Global: Current Sensor Industry: Porter's Five Forces Analysis

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