

Global Current Sensors for Automotive Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/CD09F850386AEN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: CD09F850386AEN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Current Sensors for Automotive market size will reach 761.71 Million USD in 2025 and is projected to reach 1,824.44 Million USD by 2032, with a CAGR of 13.29% (2025-2032). Notably, the China Current Sensors for Automotive 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 for automotive applications are specialized electronic devices used to measure and monitor electric current in various automotive systems and components. These sensors play a crucial role in the efficient and safe operation of modern vehicles. They are commonly used in applications such as battery management systems, motor control units, charging systems, and power distribution modules. Current sensors in automotive use various technologies like Hall effect sensors, shunt resistors, and magnetic field sensors to accurately measure the current flowing through electrical circuits without direct contact with the conductors. The data provided by these sensors is used for real-time monitoring, enabling the vehicle's electronic control units to optimize performance, ensure proper functioning of critical systems, and implement overcurrent protection measures. Accurate current sensing is essential for enhancing vehicle safety, energy efficiency, and reliability in today's automotive industry.

The major global manufacturers of Current Sensors for Automotive include LEM Holding SA, Allegro Microsystems, Melexis NV, TDK Micronas, Honeywell International Inc.,

Robert Bosch GmbH, DENSO, Continental, Kohshin Electric Corporation, Nicera, Infineon, BYD, CRRC, Sinomags Electrical, 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 for Automotive. 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 for Automotive 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 for Automotive 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 for Automotive 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 for Automotive Include:

LEM Holding SA

Allegro Microsystems

Melexis NV

TDK Micronas

Honeywell International Inc.

Robert Bosch GmbH

DENSO

Continental

Kohshin Electric Corporation

Nicera

Infineon

BYD

CRRC

Sinomags Electrical

Current Sensors for Automotive Product Segment Include:

Hall Based Current Sensor

Shunt Based Current Sensor

Others

Current Sensors for Automotive Product Application Include:

Fuel Vehicle

Electric Vehicle

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