

Global Automotive-grade Current Sensor Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive-grade Current Sensor Modules market size was valued at US\$ 1075 million in 2025 and is forecast to a readjusted size of US\$ 2264 million by 2032 with a CAGR of 11.3% during review period.

Automotive-grade Current Sensor Modules are current sensing modules specifically designed for automotive applications and compliant with automotive reliability and functional safety standards. These modules integrate current sensing elements (such as Hall-effect, magnetoresistive, shunt-based, or fluxgate sensors) with signal conditioning, electrical isolation, temperature compensation, self-diagnostics, and interface circuitry, and typically meet AEC-Q qualification and ISO 26262 functional safety requirements. Automotive-grade current sensor modules provide accurate and stable AC or DC current measurement under harsh electromagnetic conditions and wide temperature ranges, and are widely used in battery management systems (BMS), electric drive systems, onboard chargers (OBC), DC/DC converters, and conventional automotive electrical systems.

The growth of the automotive-grade current sensor module market is primarily driven by vehicle electrification and the upgrading of automotive electrical and electronic architectures. The increasing penetration of new energy vehicles places higher demands on current measurement accuracy, safety, and real-time monitoring in battery systems, electric drivetrains, and high-voltage components, accelerating the adoption of highly integrated module-based solutions over discrete sensors. At the same time, rising power density and system complexity require enhanced isolation performance, noise immunity, and thermal stability, highlighting the advantages of automotive-grade current

sensor modules in consistency and system safety. In addition, stricter functional safety regulations, the transition toward high-voltage platforms (400V/800V), and the rapid adoption of advanced power devices such as SiC in automotive applications are further expanding the use of automotive-grade current sensor modules in new energy and high-end automotive electronics.

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

Key Features:

Global Automotive-grade Current Sensor Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K Units), 2021-2032

Global Automotive-grade Current Sensor Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K Units), 2021-2032

Global Automotive-grade Current Sensor Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K Units), 2021-2032

Global Automotive-grade Current Sensor Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (K Units), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Automotive-grade Current Sensor Modules
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive-grade Current Sensor Modules

market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LEM Holding, Honeywell, Sinomags, Kohshin Electric Corporation, Tamura, Littelfuse, Nicera, BYD, CRRC, Innosense, etc.

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

Market Segmentation

Automotive-grade Current Sensor Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hall Current Sensor

Fluxgate Current Sensor

xMR Current Sensor

Others

Market segment by Isolation Type

Isolated

Non-isolated

Market segment by Installation & Integration Location

Battery Management System (BMS)

Electric Drive System

Others

Market segment by Application

Gas-powered Cars

New Energy Vehicles

Major players covered

LEM Holding

Honeywell

Sinomags

Kohshin Electric Corporation

Tamura

Littelfuse

Nicera

BYD

CRRC

Innosense

Shanghai Baolong Automotive Corporation

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive-grade Current Sensor Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-grade Current Sensor Modules, with price, sales quantity, revenue, and global market share of Automotive-grade Current Sensor Modules from 2021 to 2026.

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

Chapter 4, the Automotive-grade Current Sensor Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive-grade Current Sensor Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-grade Current Sensor Modules.

Chapter 14 and 15, to describe Automotive-grade Current Sensor Modules sales channel, distributors, customers, research findings and conclusion.

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