

# Global Automotive-grade Current Sensor Modules Market Growth 2026-2032

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## Abstracts

The global Automotive-grade Current Sensor Modules market size is predicted to grow from US\$ 1022 million in 2025 to US\$ 2235 million in 2032; it is expected to grow at a CAGR of 12.0% from 2026 to 2032.

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.

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

This Insight Report provides a comprehensive analysis of the global Automotive-grade Current Sensor Modules 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 Automotive-grade Current Sensor Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive-grade Current Sensor Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive-grade Current Sensor Modules 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 Automotive-grade Current Sensor Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive-grade Current Sensor Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hall Current Sensor

Fluxgate Current Sensor

xMR Current Sensor

Others

Segmentation by Isolation Type:

Isolated

Non-isolated

Segmentation by Installation & Integration Location:

Battery Management System (BMS)

Electric Drive System

Others

Segmentation by Application:

Gas-powered Cars

New Energy Vehicles

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.

LEM Holding

Honeywell

Sinomags

Kohshin Electric Corporation

Tamura

Littelfuse

Nicera

BYD

CRRC

Innosense

Shanghai Baolong Automotive Corporation

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive-grade Current Sensor Modules market?

What factors are driving Automotive-grade Current Sensor Modules market growth, globally and by region?

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

How do Automotive-grade Current Sensor Modules market opportunities vary by end market size?

How does Automotive-grade Current Sensor Modules break out by Type, by Application?

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