

Global Markets for Automotive Sensor Technologies

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Abstracts

Report Scope

The report provides an overview and analysis of the global market for automotive sensor technologies and the leading companies' products and initiatives. Using 2023 as the base year, the report provides estimated market data for 2024, and a forecast of market values from 2024 through 2029. It also discusses the automotive sensor types, their applications, and sensor deployment trends in different types of vehicles. Projected revenue values are in constant U.S. dollars that have not been adjusted for inflation. Two-wheelers and agricultural and industrial vehicles are beyond the scope of this study.

This report segments the global market is by:

Sensor type: Chemical and gas sensors, rotational motion sensors, angular and linear position sensors, image and vision sensors, mass airflow sensors, accelerometers, radar and light detection and ranging (LiDAR) sensors, temperature sensors, pressure sensors, Internet of Things (IoT) sensors and others (humidity sensors, acoustic sensors, rain sensors, light sensors, proximity sensors).

Vehicle type: Passenger vehicles and commercial vehicles. The commercial vehicles segment is further segmented into light commercial vehicles (LCVs) and heavy commercial vehicles (HCVs).

Propulsion technology: Internal combustion engine (ICE) vehicles and alternative fuel vehicles.

Application: Powertrain, driver support, comfort and convenience, vehicle safety

and security, vehicle control, and others (sensors for miscellaneous applications in alternative fuel vehicles and autonomous and semi-autonomous vehicles).

Sales channel: Original equipment manufacturer (OEM) and aftermarket. In the context of this report, OEM refers to the sales channel through which sensor providers directly sell to automotive manufacturers. Aftermarket refers to the channel where sensor solutions are sold by dealers, retailers and partners for vehicle upgrades, modifications, and repair purposes.

Region: North America, Europe, Asia-Pacific and Rest of the World (RoW).

Report Includes

186 data tables and 52 additional tables

An analysis of the current and future global markets for automotive sensor technologies

Analyses of global market trends, with market revenue data (sales figures) for 2023, estimates for 2024, forecasts for 2025, 2027, and projected CAGRs through 2029

Estimates of the market size and revenue forecasts for the global market for automotive sensor technologies, with market share analysis by sensor type, vehicle type, propulsion technology, sales channel, application, and region

A look at the development and deployment of sensing technologies and advanced electronic systems, and their challenges

Information on advanced driver assistance systems (ADAS) and hybrid and electric vehicles

Discussion of the rising demand for convenience, comfort, safety, efficiency and environmental protection

Discussions of the market dynamics, opportunities and challenges, as well as emerging technologies

Insights derived from the Porter's Five Forces model, as well as global supply chain analyses and case studies

Analysis of patent activity, featuring key granted and published patents

Overview of the sustainability trends and ESG developments in the industry, with emphasis on the ESG practices of leading companies, their ESG rankings, and consumer attitudes

Competitive intelligence, including companies' market shares, recent M&A activity and venture funding

Profiles of the leading companies, including Bosch Mobility, Continental AG, Denso Corp., Sensata Technologies Inc., and Infineon Technologies AG

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ANALOG DEVICES INC.
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CONTINENTAL AG
DENSO CORP.
INFINEON TECHNOLOGIES AG
MELEXIS
NXP SEMICONDUCTORS
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