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Automotive Sensor Market Size, Share & Trends Analysis Report By Sensors (Temperature, Position, Pressure, NOx), By Application (Engine & Drivetrain, Emission Control), By Vehicle, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global automotive sensor market size was valued at USD 48.5 billion in 2025 and is projected to grow from USD 54.2 billion in 2026 to USD 119.1 billion by 2033, growing at a CAGR of 11.9% from 2026 to 2033. Asia Pacific dominated the market, accounting for a revenue share of 44.0% in 2025. The increasing demand for advanced driver-assistance systems (ADAS) and autonomous vehicles is the key market driver.

ADAS features such as blind-spot monitoring, lane departure warning, and automatic emergency braking largely rely on various automotive sensors such as LiDAR, radar, temperature, and positioning sensors. Self-driving cars require more extensive sensor suites, including video cameras, ultrasonic sensors, radio detection and ranging (RADAR), and light detection and ranging (LiDAR), creating massive demand for automotive sensors.

Advancements in sensor technology are making sensors more efficient and affordable. This enables broader sensor integration for various functionalities, such as fleet management, vehicle condition monitoring, and vehicle movement tracking. Furthermore, the rise in demand for electric vehicles (EVs) requires a more robust suite of sensors for safety features such as parking assistance and collision avoidance. The growth of EVs creates a new market for safety and security sensors.

Governments worldwide are implementing stricter regulations on safety features for commercial vehicles and passenger vehicles. This has led to the inclusion of advanced

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driver-assistance systems (ADAS) in HCVs, such as automatic emergency braking, lane departure warning, and blind-spot monitoring. These ADAS features rely mostly on automotive sensors, including LiDAR, radar, and cameras. Pedestrian detection and automatic emergency braking rely heavily on advanced automotive sensors. Therefore, for safety and security purposes, the demand for these sensors is expected to rise in the future as well.

Global Automotive Sensor Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global automotive sensor market report based on sensors, vehicle, application, and region:

Sensors Outlook (Revenue, USD Billion, 2021 - 2033)

- Temperature Sensors
- Position Sensors
- Pressure Sensors
- NOx Sensors
- Radar Sensors
- Others

Vehicle Outlook (Revenue, USD Billion, 2021 - 2033)

- Passenger Car
- Light Commercial Vehicles (LCV)
- Heavy Commercial Vehicles (HCV)
- Others

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Application Outlook (Revenue, USD Billion, 2021 - 2033)

- Engine & Drivetrain
- Safety & Security
- Emission Control
- Others

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Asia Pacific
- China
- Japan
- India
- South Korea
- Australia

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Latin America

Brazil

Middle East and Africa (MEA)

Saudi Arabia

UAE

South Africa

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