

# **Automotive Sensors Market - A Global and Regional Analysis: Focus on Application, Product, and Country-Wise Assessment - Analysis and Forecast, 2021-2030**

<https://marketpublishers.com/r/A8FF50CCF4D0EN.html>

Date: July 2021

Pages: 234

Price: US\$ 5,250.00 (Single User License)

ID: A8FF50CCF4D0EN

## **Abstracts**

Market Report Coverage - Automotive Sensors

Market Segmentation

Vehicle Type: Conventional Vehicles (Passenger Cars, Light Commercial Vehicles (LCVs), Heavy Duty Trucks, Heavy-Duty Buses) and Electric Vehicles (Passenger Vehicles and Commercial Vehicles)

Mode of Sales: OEM and Aftermarket

Application: Powertrain, Chassis, Body Electronics, Safety and Control, and Exhaust System

Sensor Type: Pressure, Gas, Position, Temperature, Speed, Level, Inertial, Proximity, Flow, Knock, Force, Torque, Humidity, and Others

Technology: Micro-Electromechanical Systems (MEMS) and Non-MEMS

Regional Segmentation

North America: U.S., Canada, Mexico

Europe: France, Germany, Spain, Rest-of-Europe

China

U.K.

Asia-Pacific and Japan: Japan, South Korea, India, and Rest-of-Asia-Pacific and Japan

South America

Middle East and Africa

### Market Growth Drivers

Growing Demand for Premium Vehicles Owing to Inclination of Consumers Toward Comfort and Luxury

Increasing Push from Government as Well as Consumers to Develop Safety Features for Vehicles

Increasing Government Regulations on Emission Control

Increasing Number of Electronic Components in the Vehicle

### Market Challenges

Reliability and Safety Issues with the Automotive Sensors

Lack of Standardization in MEMS Fabrication

### Market Opportunities

Rising Demand for ADAS Systems and Autonomous Vehicles

Growing Number of Electric Vehicles Leading to a Rising Demand for Sensors

Multi-Purpose Sensors, Sensor Platforms, and Sensor Fusion Possess Tremendous Opportunities

## Key Companies Profiled

Continental AG, Robert Bosch GmbH, TE Connectivity, Sensata Technologies, Inc., Denso Corporation, BorgWarner, ZF Friedrichshafen AG, Infineon Technologies, STMicroelectronics, Hella GmbH, NXP Semiconductors, Analog Devices, Inc., Melexis, CTS Corporation, Allegro Microsystems, Inc.

## How This Report Can Add Value

**Product/Innovation Strategy:** The product segment helps the readers in understanding the different types of sensors used in vehicles. Also, the study provides the readers with a detailed understanding of the automotive sensors market by technology, vehicle type, application, and mode of sales.

**Growth/Marketing Strategy:** Players operating in the global automotive sensors market are developing innovative products to enhance the capabilities of their product offerings. Growth/marketing strategies will help the readers in understanding the revenue-generating strategies adopted by the players operating in the global automotive sensors market. Moreover, other strategies adopted by the market players will help the readers in making strategic decisions, such as go-to-market strategies.

**Competitive Strategy:** Players analyzed and profiled in the study include sensors manufacturers that capture the maximum share in the global automotive sensors market. Moreover, a detailed competitive benchmarking of the players operating in the global automotive sensors market has been done that will help the readers to understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements and collaborations, and mergers and acquisitions are expected to aid the readers in understanding the untapped revenue pockets in the market.

## Key Questions Answered in the Report

Which global factors are expected to impact the global automotive sensors industry?

What was global automotive sensors market size in 2019, and what would be the estimated market size in terms of revenue in 2030?

How much revenue is expected to be generated by different types of sensors, namely, temperature, pressure, position, speed, level, inertial, knock, gas, and flow?

Which automotive sensors application is expected to be dominant in the forecast period 2021-2030?

Which companies are the major players in the global automotive sensors market and what are the key market strategies adopted by them?

## Automotive Sensors Market

The history of the origin of sensors dates back to the early 1800s, wherein electrical resistance in various materials was a primary characteristic and was used to develop a temperature sensor that was based on copper resistors. The sensors have evolved from handling basic functionalities to handling all applications such as temperature control, pressure monitoring, and determining vehicle position. Some of the prominent automotive sensors being used nowadays are mass air flow sensor, engine speed sensor, manifold absolute pressure sensor, knock sensor, fuel temperature sensor, and current sensor.

## Automotive Sensors Industry Overview

The global automotive sensors market is expected to reach \$12.79 billion by 2030, with a CAGR of 5.47% during the forecast period 2021-2030. Original equipment manufacturers (OEMs) are integrating numerous sensors in their vehicles to achieve performance demands being made by customers regarding increased productivity and minimization of vehicle downtime. Companies are developing solutions to deal with issues such as driver fatigue, which is being seen as a major factor in about 20% of road accidents happening today.

Rising demand for automotive sensors in automobiles can be witnessed in the market, largely owing to the increase in government regulations for automobile safety and emission control. The regulations are increasing the demand for automotive sensors in applications such as body control system, power steering system, climate control, and anti-braking system (ABS). These features are being deployed by sensor manufacturers as a popular option in vehicles.

## Market Segmentation

### Global Automotive Sensors Market by Sensor Type

The global automotive sensors market has been segmented based on sensor type, including pressure sensor, gas sensor, position sensor, temperature sensor, speed sensor, level sensor, inertial sensor, proximity sensor, flow sensor, knock sensor, force sensor, torque sensor, humidity sensor, others. The temperature sensor segment is estimated to dominate the global automotive sensors market.

This is mainly due to one of the chief factors such as the stringent government norms regarding exhaust emission, which is increasing the deployment of exhaust gas temperature sensors to monitor the proper functioning of the exhaust system. Along with this, the demand for battery temperature sensors in electric vehicles, which are being used in the battery cell to measure the temperature and increasing its efficiency, and increased deployment of advanced monitoring systems in the vehicle is also rising.

### Global Automotive Sensors Market by Technology

The global automotive sensors market has been segmented based on technology, including MEMS and non-MEMS. The MEMS segment is expected to be the front runner in the global automotive sensors market by technology. These sensors usually exceed the performance of their similar macroscales. The cost per device of MEMS sensors is much lower than their corresponding macro-device, as their fabrication process uses the same batch fabrication techniques used in semiconductor production. The lower cost of production and enhanced efficiency is increasing the demand for MEMS-based sensors.

### Global Automotive Sensors Market by Vehicle Type

The global automotive sensors market has been segmented based on vehicle type, including Conventional Vehicles (Passenger Cars, Light Commercial Vehicles (LCVs), Heavy Duty Trucks, Heavy-Duty Buses) and Electric Vehicles (Passenger Cars and Light Commercial Vehicles). Conventional vehicles are the leading vehicle type in the global automotive sensors market. Conventional vehicles are automobiles using the internal combustion engine (ICE) for propelling the vehicle. The propulsion systems have been reliant on ICEs for more than a century and are going to be present in the market for decades.

## Global Automotive Sensors Market by Application

The global automotive sensors market has been segmented based on application, including powertrain, chassis, body electronics, safety and control, and exhaust system. The powertrain segment is expected to dominate the market by application. The powertrain sensors market is driven by factors such as increasing demand for fuel efficiency and lower emissions in vehicles.

Governments are mandating laws and regulations to keep a check on environmental pollution in regions such as the U.S., Europe, and Asia, which is further forcing OEMs to embrace technological advancements. For instance, in the U.S., Environmental Protection Agency (EPA) with National Highway Traffic Safety Administration (NHTSA) has taken measures and developed programs to lower the greenhouse gas emissions such as the National Program for Greenhouse Gas Emissions and fuel economy standards. This program includes light duty cars and trucks and is expected to reduce 2 billion metric tons of greenhouse gas emissions and 4 billion barrels of oil over the model year 2017-2025.

## Global Automotive Sensors Market by Region

The global automotive sensors market has been segmented based on region North America, Europe, U.K., China, Asia-Pacific and Japan, South America, and the Middle East and Africa. China is among the top leading countries in terms of vehicle production. The country is a hub of numerous vehicle manufacturers, which in turn contribute to the demand for automotive sensors in the region.

## Key Market Players and Competition Synopsis

Key companies operating in the market include Continental AG, Robert Bosch GmbH, TE Connectivity, Sensata Technologies, Inc., Denso Corporation, BorgWarner, ZF Friedrichshafen AG, Infineon Technologies, STMicroelectronics, Hella GmbH, NXP Semiconductors, Analog Devices, Inc., Melexis, CTS Corporation, Allegro Microsystems, Inc.

## Contents

### 1 MARKETS

#### 1.1 Industry Outlook

1.1.1 Timeline: Emergence and Evolution of Sensors in the Automotive Industry

1.1.2 Supply Chain Analysis

1.1.3 Supply Chain Analysis: Pressure Sensor

1.1.4 Supply Chain Analysis: Temperature Sensor

1.1.5 Supply Chain Analysis: Position Sensor

1.1.6 Supply Chain Analysis: Speed Sensor

#### 1.2 Business Dynamics

1.2.1 Market Drivers

1.2.1.1 Impact Analysis

1.2.1.2 Growing Demand for Premium Vehicles Owing to Inclination of Consumers

Toward Comfort and Luxury

1.2.1.3 Increasing Push from Government as Well as Consumers to Develop Safety

Features for Vehicles

1.2.1.4 Increasing Government Regulations on Emission Control

1.2.1.5 Increasing Number of Electronic Components in the Vehicle

1.2.2 Market Restraints

1.2.2.1 Impact Analysis

1.2.2.2 Reliability and Safety Issues with the Automotive Sensors

1.2.2.3 Lack of Standardization in MEMS Fabrication

1.2.3 Business and Corporate Strategies

1.2.4 Market Opportunities

1.2.4.1 Rising Demand for ADAS Systems and Autonomous Vehicles

1.2.4.2 Growing Number of Electric Vehicles Leading to a Rising Demand for

Sensors

1.2.4.3 Multi-Purpose Sensors, Sensor Platforms, and Sensor Fusion Possess

Tremendous Opportunities

#### 1.3 Patent Analysis

### 2 APPLICATION

#### 2.1 Global Automotive Sensors Market - Application and Specification

2.1.1 Global Automotive Sensors Market (by Application)

2.1.1.1 Powertrain

2.1.1.2 Chassis

- 2.1.1.3 Body
- 2.1.1.4 Safety and Control
- 2.1.1.5 Exhaust Systems
- 2.1.2 Global Automotive Sensors Market (by Vehicle Type)
  - 2.1.2.1 Conventional Vehicles
    - 2.1.2.1.1 Passenger Vehicles
    - 2.1.2.1.2 Light Commercial Vehicles
    - 2.1.2.1.3 Heavy Duty Trucks
    - 2.1.2.1.4 Heavy-Duty Buses
  - 2.1.2.2 Electric Vehicles
    - 2.1.2.2.1 Passenger Vehicles
    - 2.1.2.2.2 Commercial Vehicles
- 2.1.3 Global Automotive Sensors Market (by Mode of Sales)
  - 2.1.3.1 OEM
  - 2.1.3.2 Aftermarket
- 2.2 Demand Analysis for Automotive Sensors Market (by Application)
  - 2.2.1 Automotive Sensors Market (by Application)
    - 2.2.1.1 Powertrain
    - 2.2.1.2 Chassis
    - 2.2.1.3 Body Electronics
    - 2.2.1.4 Safety and Control
    - 2.2.1.5 Exhaust System
  - 2.2.2 Automotive Sensors Market (by Vehicle Type)
    - 2.2.2.1 Conventional Vehicles
    - 2.2.2.2 Electric Vehicles
  - 2.2.3 Automotive Sensors Market (by Mode of Sales)
    - 2.2.3.1 OEM
    - 2.2.3.2 Aftermarket

### **3 PRODUCTS**

- 3.1 Global Automotive Sensors Market – Products and Specification
  - 3.1.1 Global Automotive Sensors Market (by Sensor Type)
    - 3.1.1.1 Temperature Sensor
    - 3.1.1.2 Pressure Sensor
    - 3.1.1.3 Position Sensor
    - 3.1.1.4 Speed Sensor
    - 3.1.1.5 Level Sensor
    - 3.1.1.6 Inertial Sensor



- 3.1.1.7 Gas Sensor
  - 3.1.1.7.1 Oxygen Sensor
  - 3.1.1.7.2 Nitrogen Oxide Sensor
  - 3.1.1.7.3 Carbon Dioxide Sensor
  - 3.1.1.7.4 Carbon Monoxide Sensor
- 3.1.1.8 Proximity Sensor
- 3.1.1.9 Flow Sensor
- 3.1.1.10 Knock Sensor
- 3.1.1.11 Force Sensor
- 3.1.1.12 Torque Sensor
- 3.1.1.13 Humidity Sensor
- 3.1.1.14 Others
- 3.1.2 Global Automotive Sensors Market (by Technology)
  - 3.1.2.1 Micro-Electromechanical Systems (MEMS)
  - 3.1.2.2 Non-MEMS
- 3.2 Demand Analysis for Global Automotive Sensors Market (by Product)
  - 3.2.1 Automotive Sensors Market (by Sensor Type)
  - 3.2.2 Automotive Sensors Market (by Technology)
    - 3.2.2.1 MEMS
    - 3.2.2.2 Non-MEMS

## **4 REGION**

- 4.1 North America
  - 4.1.1 Markets
    - 4.1.1.1 Key Manufacturers and Suppliers in North America
    - 4.1.1.2 Competitive Benchmarking
    - 4.1.1.3 Business Challenges
    - 4.1.1.4 Business Drivers
  - 4.1.2 Application
  - 4.1.3 Product
  - 4.1.4 North America: Country Level Analysis
    - 4.1.4.1 U.S.
      - 4.1.4.1.1 Markets
        - 4.1.4.1.1.1 Buyer Attributes
        - 4.1.4.1.1.2 Key Manufacturers and Suppliers in the U.S.
        - 4.1.4.1.1.3 Business Challenges
        - 4.1.4.1.1.4 Business Drivers
      - 4.1.4.1.2 Applications

- 4.1.4.1.3 Product
- 4.1.4.2 Canada
  - 4.1.4.2.1 Markets
    - 4.1.4.2.1.1 Buyer Attributes
    - 4.1.4.2.1.2 Key Manufacturers and Suppliers in Canada
    - 4.1.4.2.1.3 Business Challenges
    - 4.1.4.2.1.4 Business Drivers
  - 4.1.4.2.2 Applications
  - 4.1.4.2.3 Product
- 4.1.4.3 Mexico
  - 4.1.4.3.1 Markets
    - 4.1.4.3.1.1 Buyer Attributes
    - 4.1.4.3.1.2 Key Manufacturers and Suppliers in Mexico
    - 4.1.4.3.1.3 Business Challenges
    - 4.1.4.3.1.4 Business Drivers
  - 4.1.4.3.2 Applications
  - 4.1.4.3.3 Product
- 4.2 Europe
  - 4.2.1 Markets
    - 4.2.1.1 Key Manufacturers and Suppliers in Europe
    - 4.2.1.2 Competitive Benchmarking
    - 4.2.1.3 Business Challenges
    - 4.2.1.4 Business Drivers
  - 4.2.2 Application
  - 4.2.3 Product
  - 4.2.4 Europe: Country Level Analysis
    - 4.2.4.1 Germany
      - 4.2.4.1.1 Markets
        - 4.2.4.1.1.1 Buyer Attributes
        - 4.2.4.1.1.2 Key Manufacturers and Suppliers in Germany
        - 4.2.4.1.1.3 Business Challenges
        - 4.2.4.1.1.4 Business Drivers
      - 4.2.4.1.2 Application
      - 4.2.4.1.3 Product
    - 4.2.4.2 Spain
      - 4.2.4.2.1 Markets
        - 4.2.4.2.1.1 Buyer Attributes
        - 4.2.4.2.1.2 Key Manufacturers and Suppliers in Spain
        - 4.2.4.2.1.3 Business Challenges

- 4.2.4.2.1.4 Business Drivers
- 4.2.4.2.2 Application
- 4.2.4.2.3 Product
- 4.2.4.3 France
  - 4.2.4.3.1 Markets
    - 4.2.4.3.1.1 Buyer Attributes
    - 4.2.4.3.1.2 Key Manufacturers and Suppliers in France
    - 4.2.4.3.1.3 Business Challenges
    - 4.2.4.3.1.4 Business Drivers
  - 4.2.4.3.2 Application
  - 4.2.4.3.3 Product
- 4.2.4.4 Rest-of-Europe
  - 4.2.4.4.1 Markets
    - 4.2.4.4.1.1 Buyer Attributes
    - 4.2.4.4.1.2 Key Manufacturers and Suppliers in the Rest-of-Europe
    - 4.2.4.4.1.3 Business Challenges
    - 4.2.4.4.1.4 Business Drivers
  - 4.2.4.4.2 Application
  - 4.2.4.4.3 Product
- 4.3 U.K.
  - 4.3.1 Markets
    - 4.3.1.1 Buyer Attributes
    - 4.3.1.2 Key Manufacturers and Suppliers in the U.K.
    - 4.3.1.3 Competitive Benchmarking
    - 4.3.1.4 Business Challenges
    - 4.3.1.5 Business Drivers
  - 4.3.2 Application
  - 4.3.3 Product
- 4.4 China
  - 4.4.1 Markets
    - 4.4.1.1 Buyer Attributes
    - 4.4.1.2 Key Manufacturers and Suppliers in China
    - 4.4.1.3 Competitive Benchmarking
    - 4.4.1.4 Business Challenges
    - 4.4.1.5 Business Drivers
  - 4.4.2 Application
  - 4.4.3 Product
- 4.5 Asia-Pacific and Japan
  - 4.5.1 Markets

- 4.5.1.1 Key Manufacturers and Suppliers in the Asia-Pacific and Japan
- 4.5.1.2 Competitive Benchmarking
- 4.5.1.3 Business Challenges
- 4.5.1.4 Business Drivers
- 4.5.2 Application
- 4.5.3 Product
  - 4.5.3.1 Asia-Pacific and Japan: Country Level Analysis
    - 4.5.3.2 Japan
      - 4.5.3.2.1 Markets
        - 4.5.3.2.1.1 Buyer Attributes
        - 4.5.3.2.1.2 Key Manufacturers and Suppliers in Japan
        - 4.5.3.2.1.3 Business Challenges
        - 4.5.3.2.1.4 Business Drivers
      - 4.5.3.2.2 Applications
      - 4.5.3.2.3 Product
    - 4.5.3.3 South Korea
      - 4.5.3.3.1 Markets
        - 4.5.3.3.1.1 Buyer Attributes
        - 4.5.3.3.1.2 Key Manufacturers and Suppliers in South Korea
        - 4.5.3.3.1.3 Business Challenges
        - 4.5.3.3.1.4 Business Drivers
      - 4.5.3.3.2 Application
      - 4.5.3.3.3 Product
    - 4.5.3.4 India
      - 4.5.3.4.1 Markets
        - 4.5.3.4.1.1 Buyer Attributes
        - 4.5.3.4.1.2 Key Manufacturers and Suppliers in India
        - 4.5.3.4.1.3 Business Challenges
        - 4.5.3.4.1.4 Business Drivers
      - 4.5.3.4.2 Application
      - 4.5.3.4.3 Product
    - 4.5.3.5 Rest-of-Asia-Pacific and Japan
      - 4.5.3.5.1 Markets
        - 4.5.3.5.1.1 Key Manufacturers and Suppliers in Rest-of-Asia-Pacific and Japan
        - 4.5.3.5.1.2 Business Challenges
        - 4.5.3.5.1.3 Business Drivers
      - 4.5.3.5.2 Application
      - 4.5.3.5.3 Product
- 4.6 South America

- 4.6.1 Markets
  - 4.6.1.1 Buyer Attributes
  - 4.6.1.2 Key Manufacturers and Suppliers in South America
  - 4.6.1.3 Business Challenges
  - 4.6.1.4 Business Drivers
- 4.6.2 Application
- 4.6.3 Product
- 4.7 Middle East and Africa
  - 4.7.1 Markets
    - 4.7.1.1 Buyer Attributes
    - 4.7.1.2 Key Manufacturers and Suppliers in the Middle East and Africa
    - 4.7.1.3 Business Challenges
    - 4.7.1.4 Business Drivers
  - 4.7.2 Application
  - 4.7.3 Product

## **5 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES**

- 5.1 Company Profiles
  - 5.1.1 Continental AG
    - 5.1.1.1 Company Overview
      - 5.1.1.1.1 Product Portfolio
      - 5.1.1.1.2 Production Sites and R&D Analysis
    - 5.1.1.2 Business Strategies
      - 5.1.1.2.1 Product Developments
      - 5.1.1.2.2 Market Developments
    - 5.1.1.3 Competitive Position
      - 5.1.1.3.1 Strengths of Company
      - 5.1.1.3.2 Weakness of Company
  - 5.1.2 Robert Bosch GmbH
    - 5.1.2.1 Company Overview
      - 5.1.2.1.1 Product Portfolio
      - 5.1.2.1.2 Production Sites and R&D Analysis
    - 5.1.2.2 Business Strategies
      - 5.1.2.2.1 Product Developments
      - 5.1.2.2.2 Market Developments
    - 5.1.2.3 Competitive Position
      - 5.1.2.3.1 Strengths of Company
      - 5.1.2.3.2 Weakness of Company

### 5.1.3 TE Connectivity

#### 5.1.3.1 Company Overview

##### 5.1.3.1.1 Product Portfolio

##### 5.1.3.1.2 Production Sites and R&D Analysis

#### 5.1.3.2 Business Strategies

##### 5.1.3.2.1 Product Developments

#### 5.1.3.3 Corporate Strategies

##### 5.1.3.3.1 Mergers and Acquisitions

#### 5.1.3.4 Competitive Position

##### 5.1.3.4.1 Strengths of Company

##### 5.1.3.4.2 Weaknesses of Company

### 5.1.4 Sensata Technologies, Inc.

#### 5.1.4.1 Company Overview

##### 5.1.4.1.1 Product Portfolio

##### 5.1.4.1.2 Production Sites and R&D Analysis

#### 5.1.4.2 Corporate Strategies

##### 5.1.4.2.1 Mergers and Acquisitions

#### 5.1.4.3 Competitive Position

##### 5.1.4.3.1 Strengths of Company

##### 5.1.4.3.2 Weakness of Company

### 5.1.5 Denso Corporation

#### 5.1.5.1 Company Overview

##### 5.1.5.1.1 Product Portfolio

##### 5.1.5.1.2 Production Sites and R&D Analysis

#### 5.1.5.2 Business Strategies

##### 5.1.5.2.1 Product Developments

#### 5.1.5.3 Corporate Strategies

##### 5.1.5.3.1 Partnerships, Joint Ventures, Collaborations and Alliances

##### 5.1.5.3.2 Mergers and Acquisitions

#### 5.1.5.4 Competitive Position

##### 5.1.5.4.1 Strength of Company

##### 5.1.5.4.2 Weaknesses of Company

### 5.1.6 BorgWarner

#### 5.1.6.1 Company Overview

##### 5.1.6.1.1 Product Portfolio

##### 5.1.6.1.2 Production Sites and R&D Analysis

#### 5.1.6.2 Business Strategies

##### 5.1.6.2.1 Product Developments

#### 5.1.6.3 Corporate Strategies

- 5.1.6.3.1 Mergers and Acquisitions
- 5.1.6.4 Competitive Position
  - 5.1.6.4.1 Strengths of Company
  - 5.1.6.4.2 Weaknesses of Company
- 5.1.7 ZF Friedrichshafen AG
  - 5.1.7.1 Company Overview
    - 5.1.7.1.1 Product Portfolio
  - 5.1.7.2 Business Strategies
    - 5.1.7.2.1 Product Developments
  - 5.1.7.3 Corporate Strategies
    - 5.1.7.3.1 Mergers and Acquisitions
  - 5.1.7.4 Competitive Position
    - 5.1.7.4.1 Strengths of Company
    - 5.1.7.4.2 Weakness of Company
- 5.1.8 Infineon Technologies
  - 5.1.8.1 Company Overview
    - 5.1.8.1.1 Product Portfolio
    - 5.1.8.1.2 Production Sites and R&D Analysis
  - 5.1.8.2 Business Strategies
    - 5.1.8.2.1 Product Developments
    - 5.1.8.2.2 Market Developments
  - 5.1.8.3 Corporate Strategies
    - 5.1.8.3.1 Partnerships, Joint Ventures, Collaborations and Alliances
    - 5.1.8.3.2 Mergers and Acquisitions
  - 5.1.8.4 Competitive Position
    - 5.1.8.4.1 Strengths of Company
    - 5.1.8.4.2 Weakness of Company
- 5.1.9 STMicroelectronics
  - 5.1.9.1 Company Overview
    - 5.1.9.1.1 Product Portfolio
    - 5.1.9.1.2 Production Sites and R&D Analysis
  - 5.1.9.2 Business Strategies
    - 5.1.9.2.1 Product Developments
  - 5.1.9.3 Competitive Position
    - 5.1.9.3.1 Strengths of Company
    - 5.1.9.3.2 Weakness of Company
- 5.1.10 Hella GmbH and Co. KGaA
  - 5.1.10.1 Company Overview
    - 5.1.10.1.1 Product Portfolio

- 5.1.10.1.2 Production Sites and R&D Analysis
- 5.1.10.2 Business Strategies
  - 5.1.10.2.1 Product Developments
  - 5.1.10.2.2 Market Developments
- 5.1.10.3 Corporate Strategies
  - 5.1.10.3.1 Partnerships, Joint Ventures, Collaborations and Alliances
- 5.1.10.4 Competitive Position
  - 5.1.10.4.1 Strengths of Company
  - 5.1.10.4.2 Weaknesses of Company
- 5.1.11 NXP Semiconductors
  - 5.1.11.1 Company Overview
    - 5.1.11.1.1 Product Portfolio
    - 5.1.11.1.2 Production Sites and R&D Analysis
  - 5.1.11.2 Business Strategies
    - 5.1.11.2.1 Product Developments
  - 5.1.11.3 Corporate Strategies
    - 5.1.11.3.1 Mergers and Acquisitions
  - 5.1.11.4 Competitive Position
    - 5.1.11.4.1 Strengths of Company
    - 5.1.11.4.2 Weaknesses of Company
- 5.1.12 Analog Devices, Inc.
  - 5.1.12.1 Company Overview
    - 5.1.12.1.1 Product Portfolio
    - 5.1.12.1.2 Production Sites and R&D Analysis
  - 5.1.12.2 Business Strategies
    - 5.1.12.2.1 Product Developments
  - 5.1.12.3 Corporate Strategies
    - 5.1.12.3.1 Partnerships, Joint Ventures, Collaborations and Alliances
    - 5.1.12.3.2 Mergers and Acquisitions
  - 5.1.12.4 Competitive Position
    - 5.1.12.4.1 Strengths of Company
    - 5.1.12.4.2 Weaknesses of Company
- 5.1.13 Melexis
  - 5.1.13.1 Company Overview
    - 5.1.13.1.1 Product Portfolio
    - 5.1.13.1.2 Production Sites and R&D Analysis
  - 5.1.13.2 Business Strategies
    - 5.1.13.2.1 Product Developments
  - 5.1.13.3 Competitive Position



- 5.1.13.3.1 Strengths of Company
- 5.1.13.3.2 Weaknesses of Company
- 5.1.14 CTS CORPORATION
  - 5.1.14.1 Company Overview
    - 5.1.14.1.1 Product Portfolio
    - 5.1.14.1.2 Production Sites and R&D Analysis
  - 5.1.14.2 Business Strategies
    - 5.1.14.2.1 Product Developments
  - 5.1.14.3 Corporate Strategies
    - 5.1.14.3.1 Mergers and Acquisitions
  - 5.1.14.4 Competitive Position
    - 5.1.14.4.1 Strengths of Company
    - 5.1.14.4.2 Weakness of Company
- 5.1.15 Allegro MicroSystems, LLC
  - 5.1.15.1 Company Overview
    - 5.1.15.1.1 Product Portfolio
  - 5.1.15.2 Business Strategies
    - 5.1.15.2.1 Product Developments
    - 5.1.15.2.2 Market Developments
  - 5.1.15.3 Corporate Strategies
    - 5.1.15.3.1 Mergers and Acquisitions
  - 5.1.15.4 Competitive Position
    - 5.1.15.4.1 Strengths of Company
    - 5.1.15.4.2 Weakness of Company

## **6 RESEARCH METHODOLOGY**

- 6.1 Data Sources
  - 6.1.1 Primary Data Sources
  - 6.1.2 Secondary Data Sources
- 6.2 Data Triangulation
- 6.3 Market Estimation and Forecast
  - 6.3.1 Factors for Data Prediction and Modeling

## List Of Figures

### LIST OF FIGURES

- Figure 1: Global Automotive Sensors Market, Million Units and \$Million, 2020-2030
- Figure 2: Global Automotive Sensors Market (by Sensor Type), \$Billion, 2020-2030
- Figure 3: Global Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Figure 4: Global Automotive Sensors Market (by Application), \$Billion, 2020-2030
- Figure 5: Global Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Figure 6: Global Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030
- Figure 7: Global Automotive Sensors Market (by Region), \$Billion, 2020
- Figure 8: Global Automotive Sensors Market: Coverage
- Figure 9: Pressure Sensor: Supply Chain Analysis
- Figure 10: Temperature Sensor: Supply Chain Analysis
- Figure 11: Position Sensor: Supply Chain Analysis
- Figure 12: Speed Sensor: Supply Chain Analysis
- Figure 13: Impact of Market Drivers
- Figure 14: Electronic Component in the Vehicle
- Figure 15: Impact of Market Restraints
- Figure 16: Share of Key Developments
- Figure 17: Types of Development, 2018-2020
- Figure 18: Patent Landscape: Automotive Sensor
- Figure 19: Patent Landscape: Automotive Temperature Sensor
- Figure 20: Patent Landscape: Automotive Pressure Sensor
- Figure 21: Patent Landscape: Automotive Position Sensor
- Figure 22: Patent Landscape: Automotive Speed Sensor
- Figure 23: List of Automotive Powertrain Sensors
- Figure 24: List of Automotive Chassis Sensors
- Figure 25: List of Automotive Body Sensors
- Figure 26: List of types of Automotive Safety Sensors
- Figure 27: Types of Automotive Exhaust Sensors
- Figure 28: Global Automotive Sensors for Powertrain Application, \$Million, 2020-2030
- Figure 29: Global Automotive Sensors for Chassis Application, \$Million, 2020-2030
- Figure 30: Global Automotive Sensors for Body Electronics Application, \$Million, 2020-2030
- Figure 31: Global Automotive Sensors for Safety and Control Application, \$Million, 2020-2030
- Figure 32: Global Automotive Sensors for Exhaust System Application, \$Million, 2020-2030

Figure 33: Conventional Vehicle Automotive Sensors Market, \$Million, 2020-2030

Figure 34: Electric Vehicle Automotive Sensors Market, \$Million, 2020-2030

Figure 35: OEM Automotive Sensors Market, \$Million, 2020-2030

Figure 36: Aftermarket Automotive Sensors Market, \$Million, 2020-2030

Figure 37: Types of Automotive Temperature Sensors

Figure 38: Types of Automotive Pressure Sensors

Figure 39: Types of Automotive Position Sensors

Figure 40: Types of Automotive Speed Sensors

Figure 41: Types of Automotive Inertial Sensor

Figure 42: Classification of Types of Gas Sensors

Figure 43: Other Automotive Sensors

Figure 44: MEMS Automotive Sensors Market, \$Million, 2020-2030

Figure 45: Non-MEMS Automotive Sensors Market, \$Million, 2020-2030

Figure 46: North America Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 47: U.S. Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 48: Canada Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 49: Mexico Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 50: Europe Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 51: Germany Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 52: Spain Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 53: France Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 54: Rest-of-Europe Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 55: U.K. Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 56: China Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 57: Asia-Pacific and Japan Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 58: Japan Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 59: South Korea Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 60: India Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 61: Rest-of-Asia-Pacific and Japan Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 62: South America Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 63: Middle East and Africa Automotive Sensors Market, \$Million and Million Units, 2020-2030

Figure 64: Continental AG: R&D Expenditure

- Figure 65: Robert Bosch GmbH: R&D Expenditure
- Figure 66: TE Connectivity: R&D Expenditure
- Figure 67: Sensata Technologies, Inc.: R&D Expenditure
- Figure 68: Denso Corporation: R&D Expenditure
- Figure 69: BorgWarner: R&D Expenditure
- Figure 70: Infineon Technologies: R&D Expenditure
- Figure 71: STMicroelectronics: R&D Expenditure
- Figure 72: Hella GmbH and Co. KGaA: R&D Expenditure
- Figure 73: NXP Semiconductors: R&D Expenditure
- Figure 74: Analog Devices, Inc.: R&D Expenditure
- Figure 75: Melexis: R&D Expenditure
- Figure 76: CTS CORPORATION: R&D Expenditure
- Figure 77: Data Triangulation
- Figure 78: Bottom-Up Approach
- Figure 79: Top-Down Approach

## List Of Tables

### LIST OF TABLES

Table 1: Global Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 2: Global Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 3: Global Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 4: Global Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 5: Global Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 6: North America Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 7: North America Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 8: North America Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030

Table 9: North America Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 10: North America Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 11: North America Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 12: U.S. Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 13: U.S. Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 14: U.S. Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 15: U.S. Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 16: U.S. Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 17: Canada Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 18: Canada Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 19: Canada Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 20: Canada Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 21: Canada Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 22: Mexico Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 23: Mexico Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 24: Mexico Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 25: Mexico Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 26: Mexico Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 27: Europe Automotive Sensors Market (by Application), \$Million, 2020-2030

- Table 28: Europe Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 29: Europe Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030
- Table 30: Europe Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 31: Europe Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 32: Europe Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 33: Germany Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 34: Germany Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 35: Germany Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 36: Germany Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 37: Germany Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 38: Spain Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 39: Spain Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 40: Spain Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 41: Spain Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 42: Spain Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 43: France Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 44: France Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 45: France Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 46: France Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 47: France Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 48: Rest-of-Europe Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 49: Rest-of-Europe Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 50: Rest-of-Europe Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 51: Rest-of-Europe Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 52: Rest-of-Europe Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 53: U.K. Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 54: U.K. Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 55: U.K. Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030
- Table 56: U.K. Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 57: U.K. Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 58: U.K. Automotive Sensors Market (by Technology), \$Million, 2020-2030



- Table 59: China Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 60: China Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 61: China Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030
- Table 62: China Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 63: China Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 64: China Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 65: Asia-Pacific and Japan Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 66: Asia-Pacific and Japan Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 67: Asia-Pacific and Japan Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030
- Table 68: Asia-Pacific and Japan Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 69: Asia-Pacific and Japan Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 70: Asia-Pacific and Japan Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 71: Japan Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 72: Japan Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 73: Japan Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 74: Japan Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 75: Japan Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 76: South Korea Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 77: South Korea Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 78: South Korea Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 79: South Korea Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 80: South Korea Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 81: India Automotive Sensors Market (by Application), \$Million, 2020-2030
- Table 82: India Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030
- Table 83: India Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030
- Table 84: India Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030
- Table 85: India Automotive Sensors Market (by Technology), \$Million, 2020-2030
- Table 86: Rest-of-Asia-Pacific and Japan Automotive Sensors Market (by Application),

\$Million, 2020-2030

Table 87: Rest-of-Asia-Pacific and Japan Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 88: Rest-of-Asia-Pacific and Japan Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 89: Rest-of-Asia-Pacific and Japan Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 90: Rest-of-Asia-Pacific and Japan Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 91: South America Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 92: South America Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 93: South America Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030

Table 94: South America Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 95: South America Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 96: South America Automotive Sensors Market (by Technology), \$Million, 2020-2030

Table 97: Middle East and Africa Automotive Sensors Market (by Application), \$Million, 2020-2030

Table 98: Middle East and Africa Automotive Sensors Market (by Vehicle Type), \$Million, 2020-2030

Table 99: Middle East and Africa Automotive Sensors Market (by Mode of Sales), \$Million, 2020-2030

Table 100: Middle East and Africa Automotive Sensors Market (by Sensor Type), \$Million, 2020-2030

Table 101: Middle East and Africa Automotive Sensors Market (by Sensor Type), Million Units, 2020-2030

Table 102: Middle East and Africa Automotive Sensors Market (by Technology), \$Million, 2020-2030



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