

Global Airbag Sensor Market Size study & Forecast, by Type (Mechanical, Electrical), by Vehicle Type (Passenger Cars, Light Commercial Vehicles, Heavy Commercial Vehicles), by Position (Bumper, Side Door, Engine), by Propulsion Type (ICE, Electric) and Regional Analysis, 2023-2030

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Abstracts

Global Airbag Sensor Market is valued at approximately USD 10.52 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.44% during the forecast period 2023-2030. An airbag sensor is a crucial component in modern vehicle safety systems designed to enhance occupant protection during collisions. These sensor are integrated into the vehicle's airbag system, these sensors play a pivotal role in determining when and with what force airbags should deploy. Airbag sensors utilize various technologies, such as accelerometers or gyroscopes, to detect abrupt changes in vehicle speed or deceleration, indicating a collision. The Airbag Sensor Market is expanding because of factors such as the emergence of government regulations and safety standards, overall growth in the automotive industry and increasing focus on road safety at a global level.

Rising incidence of road accidents and fatalities on a global scale has prompted numerous countries to take decisive actions. In response to this alarming situation, several nations are implementing new road and traffic laws with the primary goal of enhancing public safety and curbing the rising trend of road accidents. For instance, in 2018 the European Union made it mandatory for all light vehicles to be equipped with emergency SOS call systems. In a significant move toward vehicular safety, the Indian government, in September 2022, introduced stringent regulations mandating the inclusion of six airbags for passengers in all light vehicles. Governments worldwide are

driven by a shared motivation to foster safer road conditions and transportation systems, leading to the establishment of comprehensive safety regulations. Consequently, the heightened awareness of vehicle safety measures being championed by various governments globally is anticipated to generate a substantial increase in the demand for safety-related products, resulting in market growth. In addition, rising technological advancement and growing awareness among consumers about vehicle safety are creating new opportunities for market growth. However, the high cost of airbag sensors stifle the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Airbag Sensor Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Europe dominated the market in 2022 owing to the rising vehicle production, rising demand for autonomous and connected vehicles, rising government initiatives for vehicle safety and product innovation activities in the region. Asia Pacific is expected to grow at the fastest rate over the forecast period, owing to factors such as rising government policies on vehicle safety, rising automotive production, and rising investment in automotive technology research and development.

Major market player included in this report are:

Infineon Technologies AG

Mitsubishi Electric Corporation.

Continental AG

NXP Semiconductors

ZF Friedrichshafen AG

Robert Bosch GmbH

Yanfeng Automotive Safety Systems Co. Ltd

Hella GmbH & Co. KGaA

Denso Corporation

Analog Devices Inc.

Recent Developments in the Market:

In July 2023, Autoliv Inc. unveiled a cutting-edge airbag module, designed with fluid dynamic principles. This innovation enables airbag systems to expand their coverage area, effectively minimizing passenger injury by providing enhanced protection across broader sections of vehicles.

In November 2022, Melexis revealed its latest automotive pressure sensor, renowned for its exceptional accuracy, specifically designed for Internal Combustion Engine (ICE) vehicles. The company introduces a new lineup of integrated pressure sensors within this series, capable of precisely measuring absolute pressure and providing a digital output signal to seamlessly communicate with its interconnected products.

Global Airbag Sensor Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Vehicle Type, Position, Propulsion Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to

incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Mechanical

Electrical

By Vehicle Type:

Passenger Cars

Light Commercial Vehicles

Heavy Commercial Vehicles

By Position:

Bumper

Side Door

Engine

By Propulsion Type:

ICE

Electric

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

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