

Global Automotive Kick Sensor Market Size study & Forecast, by Type (Capacitive Kick Sensor, Radar Sensor, Others) by Application (OEM, Aftermarket) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G9EB94ED131FEN.html>

Date: March 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G9EB94ED131FEN

Abstracts

Global Automotive Kick Sensor Market is valued approximately USD 206.59 million in 2022 and is anticipated to grow with a healthy growth rate of more than 7.35% over the forecast period 2023-2030. Automotive Kick Sensor is a technology used in vehicles to enable hands-free access or control of certain features, typically related to the operation of power-operated components, such as a hands-free power liftgate or trunk. The kick sensor utilizes sensors, often based on radar or infrared technology, to detect a specific motion or gesture, such as a kicking motion beneath the rear bumper or certain areas of the vehicle. The Automotive Kick Sensor market is expanding because of factors such as rising adoption of advanced driver assistance systems and increasing demand for advanced automotive sensors. As a result, the demand of Automotive Kick Sensor has progressively increased in the international market during the forecast period 2023-2030.

Automotive Kick Sensors are often integrated into the broader ADAS platforms, contributing to the overall safety and convenience features of modern vehicles. These systems aim to enhance vehicle safety by providing assistance to the driver, and the inclusion of kick sensors aligns with the hands-free and convenience aspects of these systems. According to The Highway Loss Data Institute forecasts that by 2026, ADAS systems will be installed in 50% or more registered vehicles in the United States. By 2026, and roughly 71% of registered vehicles are going to be fitted with rear cameras, with 60% having rear parking sensors. In addition, as per automotive industry experts in India, it is expected that the mid-size and UV (Utility Vehicle) segments will spearhead the adoption of Advanced Driver Assistance Systems (ADAS), with penetration rates

projected to reach 15-20% and 10-15%, respectively by the year 2028. This marks a significant increase from the 5-10% and 4-8% observed in 2023. Another important factor driving the Automotive Kick Sensor market is increasing demand for advanced automotive sensors. As Government regulations and safety standards that promote the integration of advanced safety technologies in vehicles also support the adoption of Automotive Kick Sensors. The sensors contribute to pedestrian safety and can align with regulations focused on improving overall vehicle safety. In addition, in September 2023, SAE International's Organization Active Safety Systems Standards Committee formed the Active Safety System LiDAR Performance Task Force. Its goal is to develop standardized methodologies and procedures for evaluating the effectiveness of LiDAR object recognition sensors used in advanced driver assistance systems (ADAS). Moreover, supportive government automotive safety regulations and rising integration of autonomous driving technologies are anticipated to create a lucrative growth opportunity for the market over the forecast period. However, high cost associated with automotive kick sensor and technical complexities are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Automotive Kick Sensor Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for advanced automotive sensors in the region. According to Statista, the United States market for Automotive IoT sensor are anticipated to reach up to USD 59.74 billion by the year end of 2024, at a compound annual growth rate of 13.28%, and further expected to reach up to USD 98.39 billion by the year 2028. Advanced sensors, including those used in kick sensors, contribute to a more seamless and user-friendly experience for vehicle occupants. The ability to interact with the vehicle through gestures or kicks aligns with the growing trend of enhancing the overall driving experience. Consumers are increasingly valuing convenience features, and kick sensors are seen as a futuristic and attractive addition. The region's dominant performance is anticipated to propel the overall demand of Automotive Kick Sensor. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as rising number of passenger and commercial vehicles in the region. Original Equipment Manufacturers are likely to integrate innovative features into their vehicle models to stay competitive in a growing market. The inclusion of kick sensors in new vehicles becomes an attracting selling point among consumers looking for modern and convenient features.

Major market player included in this report are:

Huf H?lsbeck & F?rst GmbH & Co. KG

Aisin Seiki Co., Ltd.

Borse Dubai

InnoSenT GmbH

Whetron Electronics Co., Ltd.

Jingwei Hirain Technologies Co., Ltd.

RoadRover Technology Co., Ltd.

Changyi Huachen Auto Parts Co., Ltd.

Guangzhou Tianjian Group Co., Ltd.

MIS s.r.o.

Recent Developments in the Market:

In January 2023, D3 Engineering introduces the DesignCore RS-L1432U mmWave Radar Sensor, powered by Texas Instruments' AWRL1432 chip. This compact 1-inch cube sensor offers various radar algorithms for automotive and industrial applications, including park assist, kick-to-open, collision avoidance, and level sensing. With its low-power, low-cost design and versatile compatibility, it's ideal for PC, embedded, or standalone use, aiding in field testing, algorithm development, and demonstrations.

Global Automotive Kick 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, Application, 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

Capacitive Kick Sensor

Radar Sensor

Others

by Application

OEM

Aftermarket

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

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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