

Global Ultrasonic Sensors for Door Protection Market Growth 2026-2032

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Abstracts

The global Ultrasonic Sensors for Door Protection market size is predicted to grow from US\$ 245 million in 2025 to US\$ 585 million in 2032; it is expected to grow at a CAGR of 13.5% from 2026 to 2032.

Ultrasonic Sensors for Door Protection are short-range obstacle detection sensors installed around vehicle doors, sills, fenders, side body panels or mirror areas to detect walls, pillars, adjacent vehicles, pedestrians, cyclists and low-height obstacles during door opening, powered door deployment, sliding-door movement or frameless-door pop-out operation. The product typically consists of a piezoelectric ultrasonic transducer, acoustic membrane, plastic or metal housing, sealing structure, signal-processing circuit, connector and interface to the door control unit. By transmitting and receiving ultrasonic echoes, usually in the 40-60kHz range, the sensor calculates obstacle distance and available door-opening clearance through time-of-flight, echo intensity and algorithmic compensation. Core applications include smart electric vehicle doors, powered doors in premium vehicles, MPV sliding doors, side-body protection during low-speed parking and door-opening warning systems. Major production and supply regions are concentrated in China, Germany, France, Japan, South Korea, Mexico and Eastern Europe, where automotive electronics and sensor supply chains are well established. Representative suppliers include Valeo, Bosch, Aumovio, Denso, Continental-related companies and Chinese automotive electronics manufacturers. The product should not be treated as a general parking sensor, nor should it include millimeter-wave radar, cameras or purely mechanical door limiters; its research boundary should be limited to ultrasonic-based near-range detection sensors and integrated door-protection modules.

In 2025, global production of Ultrasonic Sensors for Door Protection reached approximately 42.0 million to 52.0 million units, while mainstream automotive-grade OE

products were priced at around USD 4.60 to USD 5.80 per unit on an FOB basis. Demand was mainly driven by intelligent electric vehicles, powered-door models, premium SUVs, MPV sliding doors, low-speed side-body protection and safe door-opening applications; as body-domain control, hidden installation, automatic door obstacle avoidance and safe door-opening angle calculation are increasingly adopted in mid-to-high-end vehicles, the global market is expected to maintain rapid growth from 2026 to 2032.

The global market for Ultrasonic Sensors for Door Protection is being supported by the broader shift toward vehicle intelligence and electrification. As electric vehicles increasingly adopt flush door handles, powered doors, welcome-opening functions, automatic sliding doors and more complex body-interaction features, door opening is evolving from a purely mechanical action into an intelligent safety function coordinated by sensors, controllers and actuators. Demand is being reinforced by narrower urban parking spaces, rising safety expectations for children and elderly passengers, the expansion of shared mobility, and the growing popularity of premium MPVs and intelligent SUVs. Compared with cameras and millimeter-wave radar, ultrasonic sensing offers practical advantages in low-speed, short-range, low-cost and low-light operating conditions, making it suitable as a basic protection sensor around door edges, side panels and sill areas. Hidden installation, multi-sensor fusion, AI-based echo interpretation, safe door-opening angle calculation and integration with electric body-control systems will become the main directions for product upgrades.

Key market challenges include body-styling integration, close-range blind zones, rain, snow and dirt contamination, temperature drift, weak echoes from soft obstacles, sensor cross-interference and vehicle cost pressure. For automakers, a door-protection system must not only deliver stable sensing performance at the sensor level, but also work with door control units, electric latches, body-domain controllers, parking assistance systems and cockpit interaction systems, while meeting automotive-grade reliability, functional safety and long-term environmental durability requirements. Downstream demand is expected to start from premium new energy vehicles, intelligent SUVs, MPVs, automatic sliding-door models and luxury vehicles with powered-door functions, before expanding into mid-to-high-end passenger cars and urban delivery vehicles. As automakers place greater emphasis on low-speed safety, user experience and seamless exterior design, Ultrasonic Sensors for Door Protection will gradually evolve from standalone warning components into critical near-range perception nodes within intelligent door systems.

LP Information, Inc. (LPI) ' newest research report, the "Ultrasonic Sensors for Door Protection Industry Forecast" looks at past sales and reviews total world Ultrasonic

Sensors for Door Protection sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultrasonic Sensors for Door Protection sales for 2026 through 2032. With Ultrasonic Sensors for Door Protection sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ultrasonic Sensors for Door Protection industry.

This Insight Report provides a comprehensive analysis of the global Ultrasonic Sensors for Door Protection landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ultrasonic Sensors for Door Protection portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ultrasonic Sensors for Door Protection market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultrasonic Sensors for Door Protection and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ultrasonic Sensors for Door Protection.

This report presents a comprehensive overview, market shares, and growth opportunities of Ultrasonic Sensors for Door Protection market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Flush Mounted Sensor

Surface Mounted Sensor

Hidden Mounted Sensor

Others

Segmentation by Installation Position:

Door Edge and Door Panel Mounted

Side Body and Fender Mounted

Sill and Lower Body Mounted

Mirror Area and Others

Segmentation by Operating Frequency Range:

40 kHz to 48 kHz

49 kHz to 60 kHz

Above 60 kHz

Others

Segmentation by Detection Range:

Below 0.5 Meter

0.5 Meter to 1.5 Meters

1.5 Meters to 3.0 Meters

Others

Segmentation by Application:

Conventional Hinged Door

Powered Swing Door

Powered Sliding Door

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Valeo

Robert Bosch GmbH

AUMOVIO SE

FORVIA HELLA

DENSO Corporation

Murata Manufacturing Co., Ltd.

TDK Corporation

Nippon Ceramic Co., Ltd.

Hyundai Mobis Co., Ltd.

HL Mando Corporation

TungThih Electronic Co., Ltd.

Whetron Electronics Co., Ltd.

Guangdong Audiowell Electronics Co., Ltd.

Shanghai Baolong Automotive Corporation

Longhorn Auto Co., Ltd.

Zhuhai Coligen Electronic Technology Co., Ltd.

Hefei Suntek Automotive Electronics Co., Ltd.

Zhongji Innolight Co., Ltd.

HikAuto Technology Co., Ltd.

Shenzhen Hangsheng Electronics Co., Ltd.

FORVISION Intelligent Technology (Suzhou) Co., Ltd.

VOXX Electronics Corporation

XENSO Electronics Sdn. Bhd.

Uno Minda Limited

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ultrasonic Sensors for Door Protection market?

What factors are driving Ultrasonic Sensors for Door Protection market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ultrasonic Sensors for Door Protection market opportunities vary by end market size?

How does Ultrasonic Sensors for Door Protection break out by Type, by Application?

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Figure 103. Global Ultrasonic Sensors for Door Protection Sales Market Share Forecast by Application (2027-2032)

Figure 104. Global Ultrasonic Sensors for Door Protection Revenue Market Share Forecast by Application (2027-2032)

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