

# Global Ultrasonic Sensors for Door Protection Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Ultrasonic Sensors for Door Protection market size is expected to reach \$ 590 million by 2032, rising at a market growth of 12.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Ultrasonic Sensors for Door Protection production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrasonic Sensors for Door Protection and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultrasonic Sensors for Door Protection that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultrasonic Sensors for Door Protection total production and demand, 2021-2032, (K Units)

Global Ultrasonic Sensors for Door Protection total production value, 2021-2032, (USD Million)

Global Ultrasonic Sensors for Door Protection production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ultrasonic Sensors for Door Protection consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultrasonic Sensors for Door Protection domestic production, consumption, key domestic manufacturers and share

Global Ultrasonic Sensors for Door Protection production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ultrasonic Sensors for Door Protection production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultrasonic Sensors for Door Protection production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultrasonic Sensors for Door Protection market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultrasonic Sensors for Door Protection market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Ultrasonic Sensors for Door Protection Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Ultrasonic Sensors for Door Protection Market, Segmentation by Type:

Flush Mounted Sensor

Surface Mounted Sensor

Hidden Mounted Sensor

Others

## Global Ultrasonic Sensors for Door Protection Market, Segmentation by Installation Position:

Door Edge and Door Panel Mounted

Side Body and Fender Mounted

Sill and Lower Body Mounted

Mirror Area and Others

## Global Ultrasonic Sensors for Door Protection Market, Segmentation by Operating Frequency Range:

40 kHz to 48 kHz

49 kHz to 60 kHz

Above 60 kHz

Others

## Global Ultrasonic Sensors for Door Protection Market, Segmentation by Detection Range:

Below 0.5 Meter

0.5 Meter to 1.5 Meters

1.5 Meters to 3.0 Meters

Others

## Global Ultrasonic Sensors for Door Protection Market, Segmentation by Application:

Conventional Hinged Door

Powered Swing Door

Powered Sliding Door

Others

#### Companies Profiled:

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 Answered:

1. How big is the global Ultrasonic Sensors for Door Protection market?
2. What is the demand of the global Ultrasonic Sensors for Door Protection market?
3. What is the year over year growth of the global Ultrasonic Sensors for Door Protection market?
4. What is the production and production value of the global Ultrasonic Sensors for Door Protection market?
5. Who are the key producers in the global Ultrasonic Sensors for Door Protection market?
6. What are the growth factors driving the market demand?

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