

# Global Ultrasonic Sensors for Door Protection Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G58854E256FDEN.html>

Date: June 2026

Pages: 163

Price: US\$ 3,480.00 (Single User License)

ID: G58854E256FDEN

## Abstracts

According to our (Global Info Research) latest study, the global Ultrasonic Sensors for Door Protection market size was valued at US\$ 257 million in 2025 and is forecast to a readjusted size of US\$ 590 million by 2032 with a CAGR of 12.7% during review period.

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 is a detailed and comprehensive analysis for global Ultrasonic Sensors for

Door Protection market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Ultrasonic Sensors for Door Protection market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultrasonic Sensors for Door Protection market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultrasonic Sensors for Door Protection market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultrasonic Sensors for Door Protection market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ultrasonic Sensors for Door Protection

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ultrasonic Sensors for Door Protection market based on the following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Ultrasonic Sensors for Door Protection market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Flush Mounted Sensor

Surface Mounted Sensor

Hidden Mounted Sensor

Others

### Market segment by Installation Position

Door Edge and Door Panel Mounted

Side Body and Fender Mounted

Sill and Lower Body Mounted

Mirror Area and Others

### Market segment by Operating Frequency Range

40 kHz to 48 kHz

49 kHz to 60 kHz

Above 60 kHz

Others

#### Market segment by Detection Range

Below 0.5 Meter

0.5 Meter to 1.5 Meters

1.5 Meters to 3.0 Meters

Others

#### Market segment by Application

Conventional Hinged Door

Powered Swing Door

Powered Sliding Door

Others

#### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ultrasonic Sensors for Door Protection product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultrasonic Sensors for Door Protection, with price, sales quantity, revenue, and global market share of Ultrasonic Sensors for Door Protection from 2021 to 2026.

Chapter 3, the Ultrasonic Sensors for Door Protection competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultrasonic Sensors for Door Protection breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ultrasonic Sensors for Door Protection market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultrasonic Sensors for Door Protection.

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