

Global Light Curtain Door Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Light Curtain Door Sensor market size was valued at US\$ 1050 million in 2025 and is forecast to a readjusted size of US\$ 1613 million by 2032 with a CAGR of 6.4% during review period.

A light curtain door sensor is a safety detection device installed on both sides of a door frame; it functions by emitting and receiving multiple beams of infrared light to create a 'light curtain.' When a person or object enters the light curtain zone and interrupts the beams, the sensor immediately triggers a signal, causing the door to halt its closing motion or reopen, thereby preventing pinching injuries or collision accidents. This device is widely deployed in applications such as automatic doors, elevator doors, and industrial safety gates, serving as a critical sensing component for enhancing passage safety and elevating the sophistication of automated control systems. In 2025, sales volume is projected to reach 2.4 million units, with an average unit price of \$425. Total production capacity stands at 3 million units, with a gross margin of approximately 40%.

As public safety awareness rises and relevant regulatory standards continue to evolve, the requirements for safety detection devices in automatic doors, elevator doors, and industrial safety gates are becoming increasingly stringent. Consequently, light curtain door sensors are gradually transitioning from being an 'optional feature' to a 'standard configuration.' This trend is particularly pronounced in commercial complexes, rail transit systems, and industrial automation environments, where a growing reliance on safety functions?such as anti-pinch and anti-collision capabilities?is driving a steady increase in market demand. Concurrently, the retrofitting and upgrading of existing equipment have emerged as a significant source of incremental growth, fueling sustained activity within the replacement market.

Light curtain door sensors are currently evolving from traditional infrared beam-break technology toward more precise and stable intelligent sensing solutions. Product performance is continuously improving across key metrics including interference immunity, response speed, and detection accuracy to better adapt to complex operating environments (such as those involving strong ambient light, dust, or high-traffic flow). Furthermore, some products are beginning to integrate communication and data capabilities, enabling them to interface with building automation or industrial control systems to facilitate real-time status monitoring and remote maintenance. Moving forward, products distinguished by their high reliability, low false-alarm rates, and robust system integration capabilities are poised to gain a competitive edge within the industry.

This report is a detailed and comprehensive analysis for global Light Curtain Door Sensor 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 Light Curtain Door Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Light Curtain Door Sensor 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 Light Curtain Door Sensor 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 Light Curtain Door Sensor 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 Light Curtain Door Sensor

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 Light Curtain Door Sensor 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 VEGA, CEDES, FORMULA SYSTEMS, TL JONES, AVIRE, KMISEN, CEP, Adams GateKeeper, Orbital Systems, TELCO, etc.

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

Market Segmentation

Light Curtain Door Sensor 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

Ordinary Light Curtain

Safety Class 2 Light Curtain

Safety Class 4 Light Curtain

Market segment by Core Technology

Infrared Sensing

Smart / Redundancy Type

Market segment by Housing & Structure

Standard / Surface Mounted

Slim / Concealed Profile

Market segment by Application

Factory

Residential

Shopping Mall

Others

Major players covered

VEGA

CEDES

FORMULA SYSTEMS

TL JONES

AVIRE

KMISEN

CEP

Adams GateKeeper

Orbital Systems

TELCO

CENTA Elevator

Sunny Elevator

WECO OPTOELECTRONICS

SAFETY ELECTRONICS

Zaag Technology

G-TEK SENSOR TECHNOLOGY

Laien Optic Electronic

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 Light Curtain Door Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Light Curtain Door Sensor, with price, sales quantity, revenue, and global market share of Light Curtain Door Sensor from

2021 to 2026.

Chapter 3, the Light Curtain Door Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Light Curtain Door Sensor 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 Light Curtain Door Sensor 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 Light Curtain Door Sensor.

Chapter 14 and 15, to describe Light Curtain Door Sensor sales channel, distributors, customers, research findings and conclusion.

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