

Global Light Curtain Door Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Light Curtain Door Sensor market size is expected to reach \$ 1613 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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 studies the global Light Curtain Door Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Light Curtain Door Sensor 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 Light Curtain Door Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Light Curtain Door Sensor total production and demand, 2021-2032, (K Units)

Global Light Curtain Door Sensor total production value, 2021-2032, (USD Million)

Global Light Curtain Door Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Light Curtain Door Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Light Curtain Door Sensor domestic production, consumption, key domestic manufacturers and share

Global Light Curtain Door Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Light Curtain Door Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Light Curtain Door Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Light Curtain Door Sensor 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Light Curtain Door Sensor 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 Light Curtain Door Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Light Curtain Door Sensor Market, Segmentation by Type:

Ordinary Light Curtain

Safety Class 2 Light Curtain

Safety Class 4 Light Curtain

Global Light Curtain Door Sensor Market, Segmentation by Core Technology:

Infrared Sensing

Smart / Redundancy Type

Global Light Curtain Door Sensor Market, Segmentation by Housing & Structure:

Standard / Surface Mounted

Slim / Concealed Profile

Global Light Curtain Door Sensor Market, Segmentation by Application:

Factory

Residential

Shopping Mall

Others

Companies Profiled:

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

Key Questions Answered:

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

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