

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

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Abstracts

The global Infrared 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).

An infrared light curtain door sensor is a safety detection device that operates by emitting multiple beams of infrared light from both sides of a doorway to create a continuous 'light curtain.' It is designed to detect, in real-time, whether any personnel or objects are entering the doorway area. When any single beam within the light curtain is interrupted, the sensor immediately outputs a signal, instructing the door to halt its closing motion or to reopen, thereby effectively preventing pinching injuries or collision accidents. Characterized by rapid response times, a wide detection range, and strong resistance to interference, this device is widely deployed in automatic doors, elevator doors, and various intelligent access control systems, serving as a critical component of modern door safety management. In 2025, projected sales volume stands at 2.4 million units, with an average unit price of \$425. Total production capacity is estimated at 3 million units, with a gross profit margin of approximately 40%.

Driven by ongoing urbanization and the continuous elevation of safety standards in public spaces, infrared light curtain door sensors have gradually evolved from 'optional accessories' into standard components within automatic door and elevator systems. High-traffic environments?such as commercial complexes, hospitals, transportation hubs, and office buildings?are exhibiting an ever-increasing demand for safety features that prevent pinching and accidental contact; this trend is driving a steady rise in the adoption rate of these products in both new construction projects and the retrofitting of existing facilities. Concurrently, the advancement of smart buildings and intelligent facility management has integrated door control systems into broader Internet of Things

(IoT) ecosystems, thereby further expanding their scope of application.

Industry competition is shifting its focus from mere hardware performance to comprehensive system capabilities?specifically, the integration of 'sensing + control + platform' functions. Consequently, infrared light curtain door sensors are undergoing continuous improvements in detection precision, interference immunity, and environmental adaptability to meet the demands of challenging conditions, such as complex lighting environments, strong electromagnetic interference, and high-frequency traffic scenarios. Furthermore, these products are increasingly incorporating capabilities for self-diagnosis, remote monitoring, and data interfacing, enabling them to integrate seamlessly with building automation or elevator control systems to facilitate coordinated management and optimize operational maintenance. Looking ahead, solutions characterized by high reliability, low false-alarm rates, and robust platform compatibility are poised to secure a distinct competitive advantage within the mid-to-high-end market segments.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Infrared Light Curtain Door Sensor production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Infrared 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 Infrared 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 Infrared Light Curtain Door Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Light Curtain Door Sensor Market, Segmentation by Type:

Ordinary Light Curtain

Safety Class 2 Light Curtain

Safety Class 4 Light Curtain

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

Infrared Sensing

Smart / Redundancy Type

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

Standard / Surface Mounted

Slim / Concealed Profile

Global Infrared 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 Infrared Light Curtain Door Sensor market?

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

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