

Safety Light Curtain Market Report and Forecast 2025-2034

Market Report | 2025-08-13 | 173 pages | EMR Inc.

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Report description:

The global safety light curtain market was valued at USD 1.22 Billion in 2024 . The industry is expected to grow at a CAGR of 7.00% during the forecast period of 2025-2034 to attain a valuation of USD 2.40 Billion by 2034 .

Safety Light Curtain Market Growth

Safety light curtains secure machinery used in the factories of the health sector and help to separate areas that are limited. Developing countries such as India and China are heavily investing in health sector production, indirectly boosting the growth of the safety light curtain market. The market is majorly being driven by the increasing use of robots in the packaging industry; and the industry-wide compulsory safety regulations.

Safety Light Curtain Market Trends

Growing advancements in sensor technology such as better response time, high resolution, and increased detection range are a crucial trend in the safety light curtain market. These functionalities can enhance the efficiency of light curtains.

Recent Developments

As per the safety light curtain system market dynamics and trends, SICK announced the launch of a Smart Box Detection system for the safety Light Curtain, deTec4 in February 2023. This system is used to enhance the operational safety of the workers and operators in the industrial sector.

Industry Outlook

As per the safety light curtain industry analysis, around USD 3179.24 million worth of paper, paperboard and newsprint were exported in 2021-22 from India, which was around 63% more than the previous year. Andhra Pradesh, Karnataka, Maharashtra,

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and Gujarat are the four major states in India which are involved in the paper sector. Moreover, 40% of the Indian population is estimated to live in urban areas by the year 2025 which is a 31% growth compared to 2010. This will lead to a surge in the packaged food demand and consequently, the packaging sector. This is expected to boost the demand for safety light curtains which are used in machine guarding to ensure the safety of operators.

As per the industry reports from the UK, the food and drink manufacturing sector employed around 456,000 people in 2022 in the region. The export of the food and beverage products contributed around USD 25 billion to the region, The UK also had 12,460 food and drink manufacturing businesses in the region as of 2022. This growth of the food and beverage industry creates a lucrative landscape for safety light curtains in the region as they are used to keep the workers safe during the packaging and processing of the products, which fuels the growth of the safety light curtain industry.

Market players are further developing applications that can enhance safety in the industrial sectors. For instance, Pilz announced the launch of a Safety Distance Calculator, a device which can calculate the appropriate distance for the placement of safety curtains in the workplace. This software can be extremely useful in the custom machine building industry which demands the recalculation of distance often. Applications like this can also aid the safety light curtain industry revenue.

Increasing Adoption and Technological Innovations Enhancing the Global Market

- Growing emphasis on workplace safety and stringent regulatory requirements.
- Technological advancements in light curtain technology, enhancing detection accuracy and reliability can aid safety light curtain demand growth.
- Increasing integration of safety light curtains in automated systems and industrial machinery.

High Costs and Limited Awareness Restricting the Global Market

- High initial costs associated with safety light curtain systems.
- Limited awareness and adoption in small and medium-sized enterprises (SMEs).
- Complexity in installation and maintenance can negatively impact safety light curtain demand forecast.
- Dependence on the availability and cost of raw materials.

Key Growth Opportunities in the Global Market

- Expansion of safety light curtain applications in emerging industries such as robotics and autonomous vehicles.
- Growing investments in industrial automation and smart manufacturing technologies.
- Rising demand for enhanced safety solutions in developing regions can aid safety light curtain demand.
- Increasing focus on sustainable and eco-friendly safety light curtain systems.

Key Market Players in the Global Safety Light Curtain Market Share and their and Competitive Strategies

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The global market is highly competitive, with major players like Keyence Corporation, Omron Corporation, SICK AG, and Rockwell Automation Inc.

Keyence Corporation

- Invest heavily in research and development to create cutting-edge safety light curtain systems with superior detection capabilities.
- Leveraging digital marketing and e-commerce platforms to reach a broader audience and enhance customer engagement can boost safety light curtain market value.
- Expand product lines to include versatile safety solutions tailored to various industrial applications.

Omron Corporation

- Focus on developing advanced safety light curtain systems with integrated diagnostic and monitoring features.
- Committing to sustainable manufacturing practices and eco-friendly product designs can contribute to the safety light curtain market revenue.
- Utilize strategic partnerships and collaborations to expand market reach and technological capabilities.

SICK AG

- Drive innovation by investing in research and development to offer high-performance safety light curtains with enhanced safety functions.
- Prioritize regional market penetration with tailored products and marketing strategies.
- Leveraging e-commerce and digital platforms to enhance customer experience and drive online sales can boost demand of safety light curtain market.

Rockwell Automation Inc.

- Emphasize continuous innovation to develop safety light curtain systems with robust performance and reliability.
- Targeting diverse markets with customized safety solutions and application-specific products can increase safety light curtain market opportunities.
- Focus on sustainability by incorporating eco-friendly materials and energy-efficient technologies in product development.

These strategies enable each company in the global safety light curtain market to remain competitive, cater to the evolving needs of industrial safety, and drive innovation and growth.

Safety Light Curtain Industry Segmentations

Safety light curtain is an electrical sensitive device that establishes an invisible, controlled area by utilising light beams and

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receiver. These are used primarily to protect workers near moving machinery that can cause harm, such as presses, winders, and palletisers.

Based on the product types, the market can be divided into:

- Optical Safety Light Curtain
- Ultrasonic Safety Light Curtain
- Vibrating Tuning Safety Light Curtain

The optical safety light curtain can further be segmented into red, infrared, and laser. Based on component, the market can be divided into:

- Light Emitting Diodes (LEDs)
- Photoelectric Cells
- Control Units
- Display Units
- Others

The safety light curtain industry can be broadly categorised based on resolution into:

- 9mm-24mm
- 25-90mm
- More than 90mm

The application sectors of safety light curtain can be divided into:

- Packaging
- Material Handling
- Robotics
- Assembly
- Others

It finds its end-uses in the following sectors:

- Automotive
- Semiconductor and Electronics
- Food and Beverages
- Healthcare
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

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Competitive Landscape

The report presents a detailed analysis of the following key players in the global safety light curtain industry, looking into their capacity, market shares, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Keyence Corporation
- Omron Corporation
- Rockwell Automation, Inc. (NYSE: ROK)
- Sick AG
- Panasonic Corporation
- Schneider Electric
- Datalogic SpA
- Banner Engineering Corp.
- Leuze electronic GmbH + Co. KG
- Pilz GmbH & Co. KG
- Others

The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

Safety Light Curtain Market Regional Analysis

The Asia Pacific accounts for a major safety light curtain industry share owing to the rise in occupational hazards in the region. The poor attention to the safety measures of the workers in the industrial sectors in developing nations necessitates the demand for efficient safety light curtains that can prevent such incidents.

Safety Light Curtain Market Report Snapshots

Safety Light Curtain Market Size

Safety Light Curtain Market Growth

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