

# Global Photoelectric Sensors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB1DAE38503EEN.html>

Date: May 2026

Pages: 151

Price: US\$ 4,480.00 (Single User License)

ID: GB1DAE38503EEN

## Abstracts

The global Photoelectric Sensors market size is expected to reach \$ 3739 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

A photoelectric sensor, or photo eye, is an equipment used to discover the distance, absence, or presence of an object by using a light transmitter, often infrared, and a photoelectric receiver. They are largely used in industrial manufacturing. There are three different useful types: opposed (through beam), retro-reflective, and proximity-sensing (diffused). An inductive sensor is an electronic device that can detect ferrous metal targets without physical contact.

Global sales of optoelectronic sensors are projected to reach 48,175,000 units in 2025, with an average price of \$47.23 per unit.

The core drivers remain factory automation, robotics, and logistics automation.

The most direct sources of demand continue to be manufacturing, packaging, warehousing and logistics, and assembly automation.

Asia remains the largest market, and most of the growth is also concentrated in Asia.

Asia is currently the most important consumer region globally. Future growth will primarily come from the expansion of automation, electronics manufacturing, and automotive manufacturing in China, Japan, South Korea, and India.

Products have evolved from ?single-point detection devices? to ?smart sensing nodes.?

A significant shift is that leading manufacturers are no longer limited to selling basic

detection capabilities?such as simply detecting the presence or absence of an object?but are moving toward higher-level solutions. In its 2024 annual report, SICK explicitly stated that, with improvements in semiconductor performance and software algorithms, the industry is transitioning from traditional application-based sensors to software-defined sensors. This implies that future competition will shift from focusing solely on hardware specifications to emphasizing software, algorithms, configurability, and system integration capabilities.

The shift toward high-end products will become more pronounced: Laser, Fiber, Area, and Safety sensors will grow faster

Sensors will place greater emphasis on ?easy integration, easy connectivity, and easy maintenance?

In its annual report, SICK repeatedly emphasized ?easy-to-integrate,? ?end-to-end solutions,? and ?sensor integration?; OMRON also explicitly stated that it will launch a large number of new models incorporating sensors in FY2025?FY2026. This reflects that future customers will not merely purchase individual components but will place greater importance on: standardized interfaces, rapid integration into control systems, remote parameter configuration, ease of maintenance, and the ability to coordinate with the entire production line.

New energy batteries, semiconductors, and electronics manufacturing will become the most important new growth drivers

In publicly available case studies from leading manufacturers, battery manufacturing and electronics manufacturing have already emerged as key focus areas

Industry competition will split into two tracks: high-end brands defending profits, while domestic/mid-range brands competing for scale

On one side, brands like KEYENCE, SICK, and OMRON will continue to move toward high value-added, software-driven, and system-integrated solutions; on the other, mid-range and domestic brands will accelerate the replacement of generic products, competing for market share based on cost-effectiveness and delivery capabilities.

This report studies the global Photoelectric Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photoelectric Sensors 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 Photoelectric Sensors that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Photoelectric Sensors total production and demand, 2021-2032, (K Units)

Global Photoelectric Sensors total production value, 2021-2032, (USD Million)

Global Photoelectric Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Photoelectric Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Photoelectric Sensors domestic production, consumption, key domestic manufacturers and share

Global Photoelectric Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Photoelectric Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Photoelectric Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Photoelectric Sensors 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 Keyence, Omron, SICK, Rockwell Automation, Panasonic, Banner, Telemecanique Sensors, Pepperl+Fuchs, Optex, Leuze Electronic, 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 Photoelectric Sensors 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 Photoelectric Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Photoelectric Sensors Market, Segmentation by Type:

General-purpose Photoelectric Sensors

Fiber Optic Sensors

Color Mark Sensors

Laser Sensors

Area Sensors

Light Curtains

Others

### Global Photoelectric Sensors Market, Segmentation by Light Source:

LED

Laser

Other

### Global Photoelectric Sensors Market, Segmentation by Test Mode:

Through-beam

Retro-reflective

Diffuse reflective

### Global Photoelectric Sensors Market, Segmentation by Application:

Battery

Automotive

Semiconductor

Intralogistics

CCC

Energy

Food and Beverage

Others

### Companies Profiled:

Keyence

Omron

SICK

Rockwell Automation

Panasonic

Banner

Telemecanique Sensors

Pepperl+Fuchs

Optex

Leuze Electronic

Wenglor

Balluff

TAKEX

Baumer

Sodron

Hans Turck

Shlanbao

Autonics

### **Key Questions Answered:**

1. How big is the global Photoelectric Sensors market?

2. What is the demand of the global Photoelectric Sensors market?
3. What is the year over year growth of the global Photoelectric Sensors market?
4. What is the production and production value of the global Photoelectric Sensors market?
5. Who are the key producers in the global Photoelectric Sensors market?
6. What are the growth factors driving the market demand?

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