

Global Photoelectric Detectors Market Growth 2025-2031

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Abstracts

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The global Photoelectric Detectors market size is predicted to grow from US\$ 1810 million in 2025 to US\$ 3309 million in 2031; it is expected to grow at a CAGR of 10.6% from 2025 to 2031.

A photodetector is a sensor that can sense light or other electromagnetic energy. It can convert photons into electric current, and the absorbed photons form electron-hole pairs. Photodetectors include photodiodes and phototransistors. Quantum efficiency is used to define the percentage of photons received by photodetectors on the light-receiving surface that are converted into electron-hole pairs. That is, the quantum efficiency is equal to the number of photogenerated electrons divided by the number of incident photons.

Photoelectric detectors are mainly divided into three types: photodiodes, phototransistors and others. Among them, photoelectric detectors are the main types of photodetectors. The Photoelectric detectors is used to detect continuous light or continuous light. Other types of photodetectors can be used to detect pulsed light as opposed to continuous light. This photodetector can also be used to assist in calculating the number of photons, etc., and has been widely used in many fields. From a global perspective, Japan is the largest production area, and the main production companies Hamamatsu and ROHM are concentrated in this area. The output value of Japan in 2019 is accounting for 33.12% of the world's total, followed by Europe, with major manufacturers such as Osram Opto Semiconductors and First Sensor.

LP Information, Inc. (LPI) ' newest research report, the "Photoelectric Detectors

Industry Forecast” looks at past sales and reviews total world Photoelectric Detectors sales in 2024, providing a comprehensive analysis by region and market sector of projected Photoelectric Detectors sales for 2025 through 2031. With Photoelectric Detectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photoelectric Detectors industry.

This Insight Report provides a comprehensive analysis of the global Photoelectric Detectors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Photoelectric Detectors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Photoelectric Detectors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photoelectric Detectors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photoelectric Detectors.

This report presents a comprehensive overview, market shares, and growth opportunities of Photoelectric Detectors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Photodiode

Phototransistor

Others

Segmentation by Application:

Automobile Industry

Consumer Electronics Industry

Medical Industry

Communication

Industrial

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

OSRAM GmbH

Hamamatsu

ROHM

LITEON Technology

ON Semiconductor

Excelitas Technologies Corp

First Sensor

EVERLIGHT ELECTRONICS CO., LTD.

Stanley Electric

Vishay

Honeywell

Sharp

NJR

TTE(OPTEK)

Phoetek

ShenZhen WDYJ DZSC

Kingbright

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photoelectric Detectors market?

What factors are driving Photoelectric Detectors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Photoelectric Detectors market opportunities vary by end market size?

How does Photoelectric Detectors break out by Type, by Application?

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