

Global Through Beam Receivers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Through Beam Receivers market size was valued at US\$ 864 million in 2025 and is forecast to a readjusted size of US\$ 1366 million by 2032 with a CAGR of 6.7% during review period.

In 2025, global Through Beam Receiver output reached about 120 million unit and global capacity of around 170 million unit. The average price is about USD 7 per unit, with gross margins near 33%. A Through Beam Receiver is the receiving component of a through-beam (opposed-mode) photoelectric sensor system, designed to detect the presence or absence of an object by capturing a continuous light beam (typically infrared or visible) emitted from a separate transmitter; when an object interrupts this beam, the receiver registers a signal change and triggers a switching output. In the supply chain, upstream elements include semiconductor light-sensitive components (photodiodes, phototransistors), optical lenses, filters, and electronic ICs sourced from optoelectronic and semiconductor suppliers; midstream manufacturing involves sensor OEMs integrating optics, signal processing circuits, housings, and calibration systems into industrial-grade receiver units; downstream, these receivers are distributed via automation distributors and system integrators and deployed across end-use sectors such as factory automation, packaging, logistics, automotive production lines, and safety systems, where high-precision object detection and long sensing distances are required.

This report is a detailed and comprehensive analysis for global Through Beam Receivers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Through Beam Receivers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through Beam Receivers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through Beam Receivers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through Beam Receivers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Through Beam Receivers
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Through Beam Receivers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SICK, Keyence, OMRON, Pepperl+Fuchs, Banner, Balluff, ifm electronic, Leuze electronic, Baumer Group, Contrinex, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Through Beam Receivers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Photodiode-based Receivers

Phototransistor-based Receivers

Market segment by Response Mode

Light-ON Receivers

Dark-ON Receivers

Market segment by Application

Automotive

Industrial

Robotics

Packaging

Logistics

Others

Major players covered

SICK

Keyence

OMRON

Pepperl+Fuchs

Banner

Balluff

ifm electronic

Leuze electronic

Baumer Group

Contrinex

Schneider Electric

Rockwell Automation

Siemens

Panasonic

Mitsubishi Electric

ABB Group

Eaton

Honeywell

Turck

Telco Sensors

Market segment by region, regional analysis covers

Global Through Beam Receivers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Through Beam Receivers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Through Beam Receivers, with price, sales quantity, revenue, and global market share of Through Beam Receivers from 2021 to 2026.

Chapter 3, the Through Beam Receivers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Through Beam Receivers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Through Beam Receivers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Through Beam Receivers.

Chapter 14 and 15, to describe Through Beam Receivers sales channel, distributors, customers, research findings and conclusion.

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