

# Global Through-beam Photoelectric Sensor Market Growth 2026-2032

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## Abstracts

The global Through-beam Photoelectric Sensor market size is predicted to grow from US\$ 1198 million in 2025 to US\$ 1926 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

In 2025, global sales of through-beam photoelectric sensors reached 68 million units, with an average selling price of US\$18. Through-beam photoelectric sensors are industrial detection elements consisting of separate transmitters and receivers. They detect the presence, position, or count of objects by blocking the light beam. They feature long detection distances, strong anti-interference capabilities, and fast response speeds, and are widely used in automated production lines, logistics transportation, packaging machinery, elevator safety, and smart warehousing. Upstream raw materials mainly include infrared or laser emitting chips, photodiodes, PCB boards, plastic or metal casings, and electronic components. The midstream consists of industrial sensor manufacturers; downstream suppliers are mainly automation equipment manufacturers, system integrators, and end-product manufacturers. In 2025, the global total production capacity of through-beam photoelectric sensors was approximately 82 million units, with an average industry gross margin of approximately 41%. Against the backdrop of global manufacturing automation upgrades, rapid development of smart logistics, and rising safety inspection standards, the demand for through-beam photoelectric sensors continues to grow. There is also clear demand space and sustained business opportunities in long-distance detection, high protection levels, and domestic substitution.

The through-beam photoelectric sensor market is experiencing steady growth, driven primarily by the increasing automation in manufacturing and the rapid development of intelligent logistics systems. Compared to diffuse and specular reflective sensors,

through-beam sensors offer significant advantages in detection distance, stability, and resistance to environmental interference. This makes them irreplaceable in high-speed production lines, complex operating conditions, and safety protection scenarios, ensuring their long-term rigidity in basic industrial needs.

From a competitive perspective, leading international manufacturers maintain a technological advantage in high precision, long-distance operation, and adaptability to extreme environments, with their products primarily used in high-end equipment and industries with high standardization requirements. Meanwhile, domestic manufacturers are continuously expanding their market share in the low-to-mid-range market through cost-effectiveness, delivery speed, and localized services, demonstrating a clear trend towards domestic substitution. As core components such as transmitting chips, receiving devices, and signal processing circuits mature, the performance gap between domestic products and international standards continues to narrow, and market penetration is expected to further increase.

In terms of application structure, demand from traditional automated production lines remains stable, while intelligent warehousing, logistics sorting, new energy equipment, and safety protection are emerging as new sources of growth. In the future, market competition for through-beam photoelectric sensors will focus more on miniaturization, long lifespan, high protection levels, and intelligent diagnostic functions. Coupled with the expansion of emerging manufacturing industries and the arrival of equipment upgrade cycles, the industry still has sustainable and predictable growth potential.

LP Information, Inc. (LPI) ' newest research report, the "Through-beam Photoelectric Sensor Industry Forecast" looks at past sales and reviews total world Through-beam Photoelectric Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Through-beam Photoelectric Sensor sales for 2026 through 2032. With Through-beam Photoelectric Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Through-beam Photoelectric Sensor industry.

This Insight Report provides a comprehensive analysis of the global Through-beam Photoelectric Sensor 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 Through-beam Photoelectric Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Through-beam Photoelectric Sensor

market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Through-beam Photoelectric Sensor 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 Through-beam Photoelectric Sensor.

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

Segmentation by Type:

Visible Red Light

Infrared Light

Laser

Segmentation by Output Signal:

Digital Output

Analog Output

Relay Output

Others

Segmentation by Structure:

Cylindrical

Square

Slot

Segmentation by Application:

Logistics

Transportation

Industrial Automation

Others

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.

Omron

SICK

Panasonic

Wenglor

Keyence

Telemecanique Sensors

Shenzhen Winfor Canbo Technology Co.,Ltd

LEELAVATI AUTOMATION PVT. LTD

DADISICK

Garantta

Pepperl+Fuchs

OMCH

Balluff

HECHUAN

Leuze

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Through-beam Photoelectric Sensor market?

What factors are driving Through-beam Photoelectric Sensor market growth, globally and by region?

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

How do Through-beam Photoelectric Sensor market opportunities vary by end market size?

How does Through-beam Photoelectric Sensor break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Through-beam Photoelectric Sensor Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Through-beam Photoelectric Sensor by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Through-beam Photoelectric Sensor by Country/Region, 2021, 2025 & 2032

#### 2.2 Through-beam Photoelectric Sensor Segment by Type

- 2.2.1 Visible Red Light
- 2.2.2 Infrared Light
- 2.2.3 Laser
- 2.2.4 Through-beam Photoelectric Sensor Sales by Type
  - 2.2.4.1 Global Through-beam Photoelectric Sensor Sales Market Share by Type (2021-2026)
  - 2.2.4.2 Global Through-beam Photoelectric Sensor Revenue and Market Share by Type (2021-2026)
  - 2.2.4.3 Global Through-beam Photoelectric Sensor Sale Price by Type (2021-2026)

#### 2.3 Through-beam Photoelectric Sensor Segment by Output Signal

- 2.3.1 Digital Output
- 2.3.2 Analog Output
- 2.3.3 Relay Output
- 2.3.4 Others
- 2.3.5 Through-beam Photoelectric Sensor Sales by Output Signal
  - 2.3.5.1 Global Through-beam Photoelectric Sensor Sales Market Share by Output Signal (2021-2026)

2.3.5.2 Global Through-beam Photoelectric Sensor Revenue and Market Share by Output Signal (2021-2026)

2.3.5.3 Global Through-beam Photoelectric Sensor Sale Price by Output Signal (2021-2026)

2.4 Through-beam Photoelectric Sensor Segment by Structure

2.4.1 Cylindrical

2.4.2 Square

2.4.3 Slot

2.4.4 Through-beam Photoelectric Sensor Sales by Structure

2.4.4.1 Global Through-beam Photoelectric Sensor Sales Market Share by Structure (2021-2026)

2.4.4.2 Global Through-beam Photoelectric Sensor Revenue and Market Share by Structure (2021-2026)

2.4.4.3 Global Through-beam Photoelectric Sensor Sale Price by Structure (2021-2026)

2.5 Through-beam Photoelectric Sensor Segment by Application

2.5.1 Logistics

2.5.2 Transportation

2.5.3 Industrial Automation

2.5.4 Others

2.5.5 Through-beam Photoelectric Sensor Sales by Application

2.5.5.1 Global Through-beam Photoelectric Sensor Sale Market Share by Application (2021-2026)

2.5.5.2 Global Through-beam Photoelectric Sensor Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Through-beam Photoelectric Sensor Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global Through-beam Photoelectric Sensor Breakdown Data by Company

3.1.1 Global Through-beam Photoelectric Sensor Annual Sales by Company (2021-2026)

3.1.2 Global Through-beam Photoelectric Sensor Sales Market Share by Company (2021-2026)

3.2 Global Through-beam Photoelectric Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global Through-beam Photoelectric Sensor Revenue by Company (2021-2026)

3.2.2 Global Through-beam Photoelectric Sensor Revenue Market Share by Company

(2021-2026)

3.3 Global Through-beam Photoelectric Sensor Sale Price by Company

3.4 Key Manufacturers Through-beam Photoelectric Sensor Producing Area  
Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Through-beam Photoelectric Sensor Product Location  
Distribution

3.4.2 Players Through-beam Photoelectric Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR THROUGH-BEAM PHOTOELECTRIC SENSOR BY GEOGRAPHIC REGION**

4.1 World Historic Through-beam Photoelectric Sensor Market Size by Geographic Region (2021-2026)

4.1.1 Global Through-beam Photoelectric Sensor Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Through-beam Photoelectric Sensor Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Through-beam Photoelectric Sensor Market Size by Country/Region (2021-2026)

4.2.1 Global Through-beam Photoelectric Sensor Annual Sales by Country/Region (2021-2026)

4.2.2 Global Through-beam Photoelectric Sensor Annual Revenue by Country/Region (2021-2026)

4.3 Americas Through-beam Photoelectric Sensor Sales Growth

4.4 APAC Through-beam Photoelectric Sensor Sales Growth

4.5 Europe Through-beam Photoelectric Sensor Sales Growth

4.6 Middle East & Africa Through-beam Photoelectric Sensor Sales Growth

## **5 AMERICAS**

5.1 Americas Through-beam Photoelectric Sensor Sales by Country

5.1.1 Americas Through-beam Photoelectric Sensor Sales by Country (2021-2026)

5.1.2 Americas Through-beam Photoelectric Sensor Revenue by Country (2021-2026)

5.2 Americas Through-beam Photoelectric Sensor Sales by Type (2021-2026)

### 5.3 Americas Through-beam Photoelectric Sensor Sales by Application (2021-2026)

#### 5.4 United States

#### 5.5 Canada

#### 5.6 Mexico

#### 5.7 Brazil

## 6 APAC

### 6.1 APAC Through-beam Photoelectric Sensor Sales by Region

#### 6.1.1 APAC Through-beam Photoelectric Sensor Sales by Region (2021-2026)

#### 6.1.2 APAC Through-beam Photoelectric Sensor Revenue by Region (2021-2026)

### 6.2 APAC Through-beam Photoelectric Sensor Sales by Type (2021-2026)

### 6.3 APAC Through-beam Photoelectric Sensor Sales by Application (2021-2026)

#### 6.4 China

#### 6.5 Japan

#### 6.6 South Korea

#### 6.7 Southeast Asia

#### 6.8 India

#### 6.9 Australia

#### 6.10 China Taiwan

## 7 EUROPE

### 7.1 Europe Through-beam Photoelectric Sensor by Country

#### 7.1.1 Europe Through-beam Photoelectric Sensor Sales by Country (2021-2026)

#### 7.1.2 Europe Through-beam Photoelectric Sensor Revenue by Country (2021-2026)

### 7.2 Europe Through-beam Photoelectric Sensor Sales by Type (2021-2026)

### 7.3 Europe Through-beam Photoelectric Sensor Sales by Application (2021-2026)

#### 7.4 Germany

#### 7.5 France

#### 7.6 UK

#### 7.7 Italy

#### 7.8 Russia

## 8 MIDDLE EAST & AFRICA

### 8.1 Middle East & Africa Through-beam Photoelectric Sensor by Country

#### 8.1.1 Middle East & Africa Through-beam Photoelectric Sensor Sales by Country (2021-2026)

8.1.2 Middle East & Africa Through-beam Photoelectric Sensor Revenue by Country (2021-2026)

8.2 Middle East & Africa Through-beam Photoelectric Sensor Sales by Type (2021-2026)

8.3 Middle East & Africa Through-beam Photoelectric Sensor Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Through-beam Photoelectric Sensor

10.3 Manufacturing Process Analysis of Through-beam Photoelectric Sensor

10.4 Industry Chain Structure of Through-beam Photoelectric Sensor

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Through-beam Photoelectric Sensor Distributors

11.3 Through-beam Photoelectric Sensor Customer

## **12 WORLD FORECAST REVIEW FOR THROUGH-BEAM PHOTOELECTRIC SENSOR BY GEOGRAPHIC REGION**

12.1 Global Through-beam Photoelectric Sensor Market Size Forecast by Region

12.1.1 Global Through-beam Photoelectric Sensor Forecast by Region (2027-2032)

12.1.2 Global Through-beam Photoelectric Sensor Annual Revenue Forecast by

Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Through-beam Photoelectric Sensor Forecast by Type (2027-2032)

12.7 Global Through-beam Photoelectric Sensor Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

13.1 Omron

13.1.1 Omron Company Information

13.1.2 Omron Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.1.3 Omron Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Omron Main Business Overview

13.1.5 Omron Latest Developments

13.2 SICK

13.2.1 SICK Company Information

13.2.2 SICK Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.2.3 SICK Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 SICK Main Business Overview

13.2.5 SICK Latest Developments

13.3 Panasonic

13.3.1 Panasonic Company Information

13.3.2 Panasonic Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.3.3 Panasonic Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Panasonic Main Business Overview

13.3.5 Panasonic Latest Developments

13.4 Wenglor

13.4.1 Wenglor Company Information

13.4.2 Wenglor Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.4.3 Wenglor Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.4.4 Wenglor Main Business Overview
- 13.4.5 Wenglor Latest Developments
- 13.5 Keyence
  - 13.5.1 Keyence Company Information
  - 13.5.2 Keyence Through-beam Photoelectric Sensor Product Portfolios and Specifications
  - 13.5.3 Keyence Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Keyence Main Business Overview
  - 13.5.5 Keyence Latest Developments
- 13.6 Telemecanique Sensors
  - 13.6.1 Telemecanique Sensors Company Information
  - 13.6.2 Telemecanique Sensors Through-beam Photoelectric Sensor Product Portfolios and Specifications
  - 13.6.3 Telemecanique Sensors Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 Telemecanique Sensors Main Business Overview
  - 13.6.5 Telemecanique Sensors Latest Developments
- 13.7 Shenzhen Winfor Canbo Technology Co.,Ltd
  - 13.7.1 Shenzhen Winfor Canbo Technology Co.,Ltd Company Information
  - 13.7.2 Shenzhen Winfor Canbo Technology Co.,Ltd Through-beam Photoelectric Sensor Product Portfolios and Specifications
  - 13.7.3 Shenzhen Winfor Canbo Technology Co.,Ltd Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Shenzhen Winfor Canbo Technology Co.,Ltd Main Business Overview
  - 13.7.5 Shenzhen Winfor Canbo Technology Co.,Ltd Latest Developments
- 13.8 LEELAVATI AUTOMATION PVT. LTD
  - 13.8.1 LEELAVATI AUTOMATION PVT. LTD Company Information
  - 13.8.2 LEELAVATI AUTOMATION PVT. LTD Through-beam Photoelectric Sensor Product Portfolios and Specifications
  - 13.8.3 LEELAVATI AUTOMATION PVT. LTD Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 LEELAVATI AUTOMATION PVT. LTD Main Business Overview
  - 13.8.5 LEELAVATI AUTOMATION PVT. LTD Latest Developments
- 13.9 DADISICK
  - 13.9.1 DADISICK Company Information
  - 13.9.2 DADISICK Through-beam Photoelectric Sensor Product Portfolios and Specifications
  - 13.9.3 DADISICK Through-beam Photoelectric Sensor Sales, Revenue, Price and

## Gross Margin (2021-2026)

13.9.4 DADISICK Main Business Overview

13.9.5 DADISICK Latest Developments

## 13.10 Garantta

13.10.1 Garantta Company Information

13.10.2 Garantta Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.10.3 Garantta Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Garantta Main Business Overview

13.10.5 Garantta Latest Developments

## 13.11 Pepperl+Fuchs

13.11.1 Pepperl+Fuchs Company Information

13.11.2 Pepperl+Fuchs Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.11.3 Pepperl+Fuchs Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Pepperl+Fuchs Main Business Overview

13.11.5 Pepperl+Fuchs Latest Developments

## 13.12 OMCH

13.12.1 OMCH Company Information

13.12.2 OMCH Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.12.3 OMCH Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 OMCH Main Business Overview

13.12.5 OMCH Latest Developments

## 13.13 Balluff

13.13.1 Balluff Company Information

13.13.2 Balluff Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.13.3 Balluff Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Balluff Main Business Overview

13.13.5 Balluff Latest Developments

## 13.14 HECHUAN

13.14.1 HECHUAN Company Information

13.14.2 HECHUAN Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.14.3 HECHUAN Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 HECHUAN Main Business Overview

13.14.5 HECHUAN Latest Developments

13.15 Leuze

13.15.1 Leuze Company Information

13.15.2 Leuze Through-beam Photoelectric Sensor Product Portfolios and Specifications

13.15.3 Leuze Through-beam Photoelectric Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Leuze Main Business Overview

13.15.5 Leuze Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Through-beam Photoelectric Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Through-beam Photoelectric Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Visible Red Light

Table 4. Major Players of Infrared Light

Table 5. Major Players of Laser

Table 6. Global Through-beam Photoelectric Sensor Sales by Type (2021-2026) & (K Units)

Table 7. Global Through-beam Photoelectric Sensor Sales Market Share by Type (2021-2026)

Table 8. Global Through-beam Photoelectric Sensor Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Through-beam Photoelectric Sensor Revenue Market Share by Type (2021-2026)

Table 10. Global Through-beam Photoelectric Sensor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Digital Output

Table 12. Major Players of Analog Output

Table 13. Major Players of Relay Output

Table 14. Major Players of Others

Table 15. Global Through-beam Photoelectric Sensor Sales by Output Signal (2021-2026) & (K Units)

Table 16. Global Through-beam Photoelectric Sensor Sales Market Share by Output Signal (2021-2026)

Table 17. Global Through-beam Photoelectric Sensor Revenue by Output Signal (2021-2026) & (\$ million)

Table 18. Global Through-beam Photoelectric Sensor Revenue Market Share by Output Signal (2021-2026)

Table 19. Global Through-beam Photoelectric Sensor Sale Price by Output Signal (2021-2026) & (US\$/Unit)

Table 20. Major Players of Cylindrical

Table 21. Major Players of Square

Table 22. Major Players of Slot

Table 23. Global Through-beam Photoelectric Sensor Sales by Structure (2021-2026) &

(K Units)

Table 24. Global Through-beam Photoelectric Sensor Sales Market Share by Structure (2021-2026)

Table 25. Global Through-beam Photoelectric Sensor Revenue by Structure (2021-2026) & (\$ million)

Table 26. Global Through-beam Photoelectric Sensor Revenue Market Share by Structure (2021-2026)

Table 27. Global Through-beam Photoelectric Sensor Sale Price by Structure (2021-2026) & (US\$/Unit)

Table 28. Global Through-beam Photoelectric Sensor Sale by Application (2021-2026) & (K Units)

Table 29. Global Through-beam Photoelectric Sensor Sale Market Share by Application (2021-2026)

Table 30. Global Through-beam Photoelectric Sensor Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Through-beam Photoelectric Sensor Revenue Market Share by Application (2021-2026)

Table 32. Global Through-beam Photoelectric Sensor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Through-beam Photoelectric Sensor Sales by Company (2021-2026) & (K Units)

Table 34. Global Through-beam Photoelectric Sensor Sales Market Share by Company (2021-2026)

Table 35. Global Through-beam Photoelectric Sensor Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Through-beam Photoelectric Sensor Revenue Market Share by Company (2021-2026)

Table 37. Global Through-beam Photoelectric Sensor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Through-beam Photoelectric Sensor Producing Area Distribution and Sales Area

Table 39. Players Through-beam Photoelectric Sensor Products Offered

Table 40. Through-beam Photoelectric Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Through-beam Photoelectric Sensor Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global Through-beam Photoelectric Sensor Sales Market Share Geographic

## Region (2021-2026)

Table 45. Global Through-beam Photoelectric Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Through-beam Photoelectric Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Through-beam Photoelectric Sensor Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global Through-beam Photoelectric Sensor Sales Market Share by Country/Region (2021-2026)

Table 49. Global Through-beam Photoelectric Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Through-beam Photoelectric Sensor Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Through-beam Photoelectric Sensor Sales by Country (2021-2026) & (K Units)

Table 52. Americas Through-beam Photoelectric Sensor Sales Market Share by Country (2021-2026)

Table 53. Americas Through-beam Photoelectric Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Through-beam Photoelectric Sensor Sales by Type (2021-2026) & (K Units)

Table 55. Americas Through-beam Photoelectric Sensor Sales by Application (2021-2026) & (K Units)

Table 56. APAC Through-beam Photoelectric Sensor Sales by Region (2021-2026) & (K Units)

Table 57. APAC Through-beam Photoelectric Sensor Sales Market Share by Region (2021-2026)

Table 58. APAC Through-beam Photoelectric Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Through-beam Photoelectric Sensor Sales by Type (2021-2026) & (K Units)

Table 60. APAC Through-beam Photoelectric Sensor Sales by Application (2021-2026) & (K Units)

Table 61. Europe Through-beam Photoelectric Sensor Sales by Country (2021-2026) & (K Units)

Table 62. Europe Through-beam Photoelectric Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Through-beam Photoelectric Sensor Sales by Type (2021-2026) & (K Units)

- Table 64. Europe Through-beam Photoelectric Sensor Sales by Application (2021-2026) & (K Units)
- Table 65. Middle East & Africa Through-beam Photoelectric Sensor Sales by Country (2021-2026) & (K Units)
- Table 66. Middle East & Africa Through-beam Photoelectric Sensor Revenue Market Share by Country (2021-2026)
- Table 67. Middle East & Africa Through-beam Photoelectric Sensor Sales by Type (2021-2026) & (K Units)
- Table 68. Middle East & Africa Through-beam Photoelectric Sensor Sales by Application (2021-2026) & (K Units)
- Table 69. Key Market Drivers & Growth Opportunities of Through-beam Photoelectric Sensor
- Table 70. Key Market Challenges & Risks of Through-beam Photoelectric Sensor
- Table 71. Key Industry Trends of Through-beam Photoelectric Sensor
- Table 72. Through-beam Photoelectric Sensor Raw Material
- Table 73. Key Suppliers of Raw Materials
- Table 74. Through-beam Photoelectric Sensor Distributors List
- Table 75. Through-beam Photoelectric Sensor Customer List
- Table 76. Global Through-beam Photoelectric Sensor Sales Forecast by Region (2027-2032) & (K Units)
- Table 77. Global Through-beam Photoelectric Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 78. Americas Through-beam Photoelectric Sensor Sales Forecast by Country (2027-2032) & (K Units)
- Table 79. Americas Through-beam Photoelectric Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 80. APAC Through-beam Photoelectric Sensor Sales Forecast by Region (2027-2032) & (K Units)
- Table 81. APAC Through-beam Photoelectric Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 82. Europe Through-beam Photoelectric Sensor Sales Forecast by Country (2027-2032) & (K Units)
- Table 83. Europe Through-beam Photoelectric Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 84. Middle East & Africa Through-beam Photoelectric Sensor Sales Forecast by Country (2027-2032) & (K Units)
- Table 85. Middle East & Africa Through-beam Photoelectric Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 86. Global Through-beam Photoelectric Sensor Sales Forecast by Type

(2027-2032) & (K Units)

Table 87. Global Through-beam Photoelectric Sensor Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global Through-beam Photoelectric Sensor Sales Forecast by Application (2027-2032) & (K Units)

Table 89. Global Through-beam Photoelectric Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Omron Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 91. Omron Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 92. Omron Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Omron Main Business

Table 94. Omron Latest Developments

Table 95. SICK Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 96. SICK Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 97. SICK Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. SICK Main Business

Table 99. SICK Latest Developments

Table 100. Panasonic Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 101. Panasonic Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 102. Panasonic Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Panasonic Main Business

Table 104. Panasonic Latest Developments

Table 105. Wenglor Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 106. Wenglor Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 107. Wenglor Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Wenglor Main Business

Table 109. Wenglor Latest Developments

- Table 110. Keyence Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors
- Table 111. Keyence Through-beam Photoelectric Sensor Product Portfolios and Specifications
- Table 112. Keyence Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 113. Keyence Main Business
- Table 114. Keyence Latest Developments
- Table 115. Telemecanique Sensors Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors
- Table 116. Telemecanique Sensors Through-beam Photoelectric Sensor Product Portfolios and Specifications
- Table 117. Telemecanique Sensors Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 118. Telemecanique Sensors Main Business
- Table 119. Telemecanique Sensors Latest Developments
- Table 120. Shenzhen Winfor Canbo Technology Co.,Ltd Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors
- Table 121. Shenzhen Winfor Canbo Technology Co.,Ltd Through-beam Photoelectric Sensor Product Portfolios and Specifications
- Table 122. Shenzhen Winfor Canbo Technology Co.,Ltd Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 123. Shenzhen Winfor Canbo Technology Co.,Ltd Main Business
- Table 124. Shenzhen Winfor Canbo Technology Co.,Ltd Latest Developments
- Table 125. LEELAVATI AUTOMATION PVT. LTD Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors
- Table 126. LEELAVATI AUTOMATION PVT. LTD Through-beam Photoelectric Sensor Product Portfolios and Specifications
- Table 127. LEELAVATI AUTOMATION PVT. LTD Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 128. LEELAVATI AUTOMATION PVT. LTD Main Business
- Table 129. LEELAVATI AUTOMATION PVT. LTD Latest Developments
- Table 130. DADISICK Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors
- Table 131. DADISICK Through-beam Photoelectric Sensor Product Portfolios and Specifications
- Table 132. DADISICK Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. DADISICK Main Business

Table 134. DADISICK Latest Developments

Table 135. Garantta Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 136. Garantta Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 137. Garantta Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Garantta Main Business

Table 139. Garantta Latest Developments

Table 140. Pepperl+Fuchs Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 141. Pepperl+Fuchs Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 142. Pepperl+Fuchs Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Pepperl+Fuchs Main Business

Table 144. Pepperl+Fuchs Latest Developments

Table 145. OMCH Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 146. OMCH Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 147. OMCH Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. OMCH Main Business

Table 149. OMCH Latest Developments

Table 150. Balluff Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 151. Balluff Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 152. Balluff Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Balluff Main Business

Table 154. Balluff Latest Developments

Table 155. HECHUAN Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 156. HECHUAN Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 157. HECHUAN Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. HECHUAN Main Business

Table 159. HECHUAN Latest Developments

Table 160. Leuze Basic Information, Through-beam Photoelectric Sensor Manufacturing Base, Sales Area and Its Competitors

Table 161. Leuze Through-beam Photoelectric Sensor Product Portfolios and Specifications

Table 162. Leuze Through-beam Photoelectric Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. Leuze Main Business

Table 164. Leuze Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Through-beam Photoelectric Sensor
- Figure 2. Through-beam Photoelectric Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Through-beam Photoelectric Sensor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Through-beam Photoelectric Sensor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Through-beam Photoelectric Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Through-beam Photoelectric Sensor Sales Market Share by Country/Region (2025)
- Figure 10. Through-beam Photoelectric Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Visible Red Light
- Figure 12. Product Picture of Infrared Light
- Figure 13. Product Picture of Laser
- Figure 14. Global Through-beam Photoelectric Sensor Sales Market Share by Type in 2026
- Figure 15. Global Through-beam Photoelectric Sensor Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Digital Output
- Figure 17. Product Picture of Analog Output
- Figure 18. Product Picture of Relay Output
- Figure 19. Product Picture of Others
- Figure 20. Global Through-beam Photoelectric Sensor Sales Market Share by Output Signal in 2026
- Figure 21. Global Through-beam Photoelectric Sensor Revenue Market Share by Output Signal (2021-2026)
- Figure 22. Product Picture of Cylindrical
- Figure 23. Product Picture of Square
- Figure 24. Product Picture of Slot
- Figure 25. Global Through-beam Photoelectric Sensor Sales Market Share by Structure in 2026

Figure 26. Global Through-beam Photoelectric Sensor Revenue Market Share by Structure (2021-2026)

Figure 27. Through-beam Photoelectric Sensor Consumed in Logistics

Figure 28. Global Through-beam Photoelectric Sensor Market: Logistics (2021-2026) & (K Units)

Figure 29. Through-beam Photoelectric Sensor Consumed in Transportation

Figure 30. Global Through-beam Photoelectric Sensor Market: Transportation (2021-2026) & (K Units)

Figure 31. Through-beam Photoelectric Sensor Consumed in Industrial Automation

Figure 32. Global Through-beam Photoelectric Sensor Market: Industrial Automation (2021-2026) & (K Units)

Figure 33. Through-beam Photoelectric Sensor Consumed in Others

Figure 34. Global Through-beam Photoelectric Sensor Market: Others (2021-2026) & (K Units)

Figure 35. Global Through-beam Photoelectric Sensor Sale Market Share by Application (2025)

Figure 36. Global Through-beam Photoelectric Sensor Revenue Market Share by Application in 2025

Figure 37. Through-beam Photoelectric Sensor Sales by Company in 2025 (K Units)

Figure 38. Global Through-beam Photoelectric Sensor Sales Market Share by Company in 2025

Figure 39. Through-beam Photoelectric Sensor Revenue by Company in 2025 (\$ millions)

Figure 40. Global Through-beam Photoelectric Sensor Revenue Market Share by Company in 2025

Figure 41. Global Through-beam Photoelectric Sensor Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Through-beam Photoelectric Sensor Revenue Market Share by Geographic Region in 2025

Figure 43. Americas Through-beam Photoelectric Sensor Sales 2021-2026 (K Units)

Figure 44. Americas Through-beam Photoelectric Sensor Revenue 2021-2026 (\$ millions)

Figure 45. APAC Through-beam Photoelectric Sensor Sales 2021-2026 (K Units)

Figure 46. APAC Through-beam Photoelectric Sensor Revenue 2021-2026 (\$ millions)

Figure 47. Europe Through-beam Photoelectric Sensor Sales 2021-2026 (K Units)

Figure 48. Europe Through-beam Photoelectric Sensor Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Through-beam Photoelectric Sensor Sales 2021-2026 (K Units)

Figure 50. Middle East & Africa Through-beam Photoelectric Sensor Revenue

2021-2026 (\$ millions)

Figure 51. Americas Through-beam Photoelectric Sensor Sales Market Share by Country in 2025

Figure 52. Americas Through-beam Photoelectric Sensor Revenue Market Share by Country (2021-2026)

Figure 53. Americas Through-beam Photoelectric Sensor Sales Market Share by Type (2021-2026)

Figure 54. Americas Through-beam Photoelectric Sensor Sales Market Share by Application (2021-2026)

Figure 55. United States Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC Through-beam Photoelectric Sensor Sales Market Share by Region in 2025

Figure 60. APAC Through-beam Photoelectric Sensor Revenue Market Share by Region (2021-2026)

Figure 61. APAC Through-beam Photoelectric Sensor Sales Market Share by Type (2021-2026)

Figure 62. APAC Through-beam Photoelectric Sensor Sales Market Share by Application (2021-2026)

Figure 63. China Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 64. Japan Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 65. South Korea Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 66. Southeast Asia Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 67. India Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 68. Australia Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 69. China Taiwan Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 70. Europe Through-beam Photoelectric Sensor Sales Market Share by Country in 2025

Figure 71. Europe Through-beam Photoelectric Sensor Revenue Market Share by Country (2021-2026)

Figure 72. Europe Through-beam Photoelectric Sensor Sales Market Share by Type (2021-2026)

Figure 73. Europe Through-beam Photoelectric Sensor Sales Market Share by Application (2021-2026)

Figure 74. Germany Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 75. France Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 76. UK Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 77. Italy Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 78. Russia Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 79. Middle East & Africa Through-beam Photoelectric Sensor Sales Market Share by Country (2021-2026)

Figure 80. Middle East & Africa Through-beam Photoelectric Sensor Sales Market Share by Type (2021-2026)

Figure 81. Middle East & Africa Through-beam Photoelectric Sensor Sales Market Share by Application (2021-2026)

Figure 82. Egypt Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 83. South Africa Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 84. Israel Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 85. Turkey Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 86. GCC Countries Through-beam Photoelectric Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 87. Manufacturing Cost Structure Analysis of Through-beam Photoelectric Sensor in 2026

Figure 88. Manufacturing Process Analysis of Through-beam Photoelectric Sensor

Figure 89. Industry Chain Structure of Through-beam Photoelectric Sensor

Figure 90. Channels of Distribution

Figure 91. Global Through-beam Photoelectric Sensor Sales Market Forecast by Region (2027-2032)

Figure 92. Global Through-beam Photoelectric Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global Through-beam Photoelectric Sensor Sales Market Share Forecast by Type (2027-2032)

Figure 94. Global Through-beam Photoelectric Sensor Revenue Market Share Forecast by Type (2027-2032)

Figure 95. Global Through-beam Photoelectric Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global Through-beam Photoelectric Sensor Revenue Market Share Forecast by Application (2027-2032)

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