

Global Through-beam Edge Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GECFCD4EFDB2EN.html>

Date: July 2026

Pages: 125

Price: US\$ 3,480.00 (Single User License)

ID: GECFCD4EFDB2EN

Abstracts

According to our (Global Info Research) latest study, the global Through-beam Edge Sensor market size was valued at US\$ 2311 million in 2025 and is forecast to a readjusted size of US\$ 3945 million by 2032 with a CAGR of 7.9% during review period.

In 2025, global sales of through-beam edge sensors reached 46.8 million units, with an average selling price of US\$48 per unit. Global production capacity in 2025 was approximately 53.2 million units, with an average industry gross margin of about 33%. Through-beam edge sensors are industrial automation sensors that utilize a beam of light or infrared detection area formed between the transmitter and receiver to perform real-time detection and correction control of material edge positions. They are mainly used for edge positioning and offset monitoring in continuous production processes of roll materials, films, paper, metal strips, and textile materials. The product typically consists of a photoelectric transmitter, receiver, signal processing module, control interface, and mounting structure. It achieves high-precision edge recognition by detecting changes in beam obstruction, and features fast response speed, high detection accuracy, strong anti-interference capability, and suitability for high-speed production lines. The product is widely used in lithium battery electrode production, printing and packaging, textile machinery, papermaking equipment, metal processing, plastic film production, and industrial automated conveyor systems.

The upstream sector primarily involves suppliers of infrared LEDs, photodiodes, PCBs, cables, aluminum alloy housings, chips, industrial connectors, and precision electronic components. Downstream consumption mainly comes from new energy lithium battery equipment, flexible packaging production lines, industrial roll-to-roll processing, intelligent manufacturing equipment, electronic material processing, and high-speed

automated production systems.

With the upgrading of industrial automation, the expansion of new energy battery production, the increasing demand for high-speed roll-to-roll processing, and the development of intelligent manufacturing, the demand for high-precision edge control systems continues to rise. Future products will develop towards higher resolution, intelligent algorithms, adaptive detection, multi-protocol communication, and miniaturization. Meanwhile, the expansion of the new energy battery, flexible electronics, optical film materials, and high-end packaging industries will continue to bring new market demands and business opportunities.

The market for through-beam edge sensors is expanding rapidly due to the increasing demand for industrial automation upgrades and high-precision roll-to-roll processing. As a key component in industrial automated alignment and position detection systems, through-beam edge sensors can form a stable detection beam between the transmitter and receiver, enabling real-time monitoring of the edge positions of roll-to-roll, film, paper, metal strip, and textile materials. Therefore, they are widely used in industries such as lithium batteries, printing and packaging, textiles, papermaking, electronic materials, and metal processing. With the increasing prevalence of high-speed production lines and precision manufacturing processes, companies are demanding higher accuracy in material positioning and production stability, driving edge detection technology towards higher precision and faster response times.

From a market demand perspective, the new energy lithium battery industry has become the fastest-growing application area. The coating, slitting, and winding processes for lithium battery electrodes require extremely high edge positioning accuracy, thus necessitating the extensive use of high-performance through-beam edge sensors for real-time alignment control. Meanwhile, flexible packaging, printing, and optical film processing industries remain traditional core markets, with high-speed roll-to-roll production equipment maintaining a stable demand for edge control systems. Furthermore, the rapid development of high-end manufacturing sectors such as electronic materials, copper foil, aluminum foil, and flexible display materials has further expanded the market space for high-precision sensor products.

From a technological development perspective, through-beam edge sensors are evolving towards intelligence, high resolution, and networking. The application of high-precision optical components, digital signal processing chips, and AI edge recognition algorithms is continuously improving detection stability and adaptability to complex environments. Simultaneously, multi-protocol industrial communication interfaces,

remote parameter adjustment, and real-time data analysis functions are gradually becoming important features of high-end products. In addition, miniaturization design and high-speed response technology are meeting the demands of lithium batteries, flexible electronics, and high-speed printing equipment for compact, high-performance sensors.

Overall, the through-beam edge sensor market is a high-growth segment within the industrial automation and precision manufacturing sectors, primarily driven by the expansion of the new energy industry, the upgrading of high-end roll-to-roll processing, and the development of intelligent manufacturing. In the future, with the continued increase in the construction of lithium batteries, optical films, flexible displays, and high-speed automated production lines, high-precision, intelligent, and high-speed response products will become the main growth direction for the industry. Companies with core optoelectronic technologies, algorithm development capabilities, and experience in automated system integration are expected to gain a larger market share and sustained growth potential in future market competition.

This report is a detailed and comprehensive analysis for global Through-beam Edge Sensor 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 Edge Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through-beam Edge Sensor 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 Edge Sensor 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 Edge Sensor 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 Edge Sensor

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 Edge Sensor 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 Akusense, OPTEX FA, SinceVision, Baumer, Leuze, Wenglor, LANBAO, GTRIC, Pepperl+Fuchs, Tech Mate, etc.

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

Market Segmentation

Through-beam Edge Sensor 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

Analog Output Type

Digital Output Type

On/Off Selectable Type

Market segment by Optical Structure

Transmissive Type

Reflective Type

Polarization Filter Type

Background Suppression Type

Market segment by Installation Method

Repeatability: 1 ?m

Repeatability: 5 ?m

Others

Market segment by Application

Metalworking

Printing

Packaging

Others

Major players covered

Akusense

OPTEX FA

SinceVision

Baumer

Leuze

Wenglor

LANBAO

GTRIC

Pepperl+Fuchs

Tech Mate

Autonics

Market segment by region, regional analysis covers

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 Edge Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Through-beam Edge Sensor, with price, sales quantity, revenue, and global market share of Through-beam Edge Sensor from 2021 to 2026.

Chapter 3, the Through-beam Edge Sensor competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Through-beam Edge Sensor 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 Edge Sensor 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 Edge Sensor.

Chapter 14 and 15, to describe Through-beam Edge Sensor sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Through-beam Edge Sensor Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Analog Output Type

1.3.3 Digital Output Type

1.3.4 On/Off Selectable Type

1.4 Market Analysis by Optical Structure

1.4.1 Overview: Global Through-beam Edge Sensor Consumption Value by Optical Structure: 2021 Versus 2025 Versus 2032

1.4.2 Transmissive Type

1.4.3 Reflective Type

1.4.4 Polarization Filter Type

1.4.5 Background Suppression Type

1.5 Market Analysis by Installation Method

1.5.1 Overview: Global Through-beam Edge Sensor Consumption Value by Installation Method: 2021 Versus 2025 Versus 2032

1.5.2 Repeatability: 1 ?m

1.5.3 Repeatability: 5 ?m

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Through-beam Edge Sensor Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Metalworking

1.6.3 Printing

1.6.4 Packaging

1.6.5 Others

1.7 Global Through-beam Edge Sensor Market Size & Forecast

1.7.1 Global Through-beam Edge Sensor Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Through-beam Edge Sensor Sales Quantity (2021-2032)

1.7.3 Global Through-beam Edge Sensor Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Akusense

2.1.1 Akusense Details

2.1.2 Akusense Major Business

2.1.3 Akusense Through-beam Edge Sensor Product and Services

2.1.4 Akusense Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Akusense Recent Developments/Updates

2.2 OPTEX FA

2.2.1 OPTEX FA Details

2.2.2 OPTEX FA Major Business

2.2.3 OPTEX FA Through-beam Edge Sensor Product and Services

2.2.4 OPTEX FA Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 OPTEX FA Recent Developments/Updates

2.3 SinceVision

2.3.1 SinceVision Details

2.3.2 SinceVision Major Business

2.3.3 SinceVision Through-beam Edge Sensor Product and Services

2.3.4 SinceVision Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 SinceVision Recent Developments/Updates

2.4 Baumer

2.4.1 Baumer Details

2.4.2 Baumer Major Business

2.4.3 Baumer Through-beam Edge Sensor Product and Services

2.4.4 Baumer Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Baumer Recent Developments/Updates

2.5 Leuze

2.5.1 Leuze Details

2.5.2 Leuze Major Business

2.5.3 Leuze Through-beam Edge Sensor Product and Services

2.5.4 Leuze Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Leuze Recent Developments/Updates

2.6 Wenglor

2.6.1 Wenglor Details

2.6.2 Wenglor Major Business

2.6.3 Wenglor Through-beam Edge Sensor Product and Services

2.6.4 Wenglor Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Wenglor Recent Developments/Updates

2.7 LANBAO

2.7.1 LANBAO Details

2.7.2 LANBAO Major Business

2.7.3 LANBAO Through-beam Edge Sensor Product and Services

2.7.4 LANBAO Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 LANBAO Recent Developments/Updates

2.8 GTRIC

2.8.1 GTRIC Details

2.8.2 GTRIC Major Business

2.8.3 GTRIC Through-beam Edge Sensor Product and Services

2.8.4 GTRIC Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 GTRIC Recent Developments/Updates

2.9 Pepperl+Fuchs

2.9.1 Pepperl+Fuchs Details

2.9.2 Pepperl+Fuchs Major Business

2.9.3 Pepperl+Fuchs Through-beam Edge Sensor Product and Services

2.9.4 Pepperl+Fuchs Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Pepperl+Fuchs Recent Developments/Updates

2.10 Tech Mate

2.10.1 Tech Mate Details

2.10.2 Tech Mate Major Business

2.10.3 Tech Mate Through-beam Edge Sensor Product and Services

2.10.4 Tech Mate Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Tech Mate Recent Developments/Updates

2.11 Autonics

2.11.1 Autonics Details

2.11.2 Autonics Major Business

2.11.3 Autonics Through-beam Edge Sensor Product and Services

2.11.4 Autonics Through-beam Edge Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Autonics Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: THROUGH-BEAM EDGE SENSOR BY MANUFACTURER

- 3.1 Global Through-beam Edge Sensor Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Through-beam Edge Sensor Revenue by Manufacturer (2021-2026)
- 3.3 Global Through-beam Edge Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Through-beam Edge Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Through-beam Edge Sensor Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Through-beam Edge Sensor Manufacturer Market Share in 2025
- 3.5 Through-beam Edge Sensor Market: Overall Company Footprint Analysis
 - 3.5.1 Through-beam Edge Sensor Market: Region Footprint
 - 3.5.2 Through-beam Edge Sensor Market: Company Product Type Footprint
 - 3.5.3 Through-beam Edge Sensor Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Through-beam Edge Sensor Market Size by Region
 - 4.1.1 Global Through-beam Edge Sensor Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Through-beam Edge Sensor Consumption Value by Region (2021-2032)
 - 4.1.3 Global Through-beam Edge Sensor Average Price by Region (2021-2032)
- 4.2 North America Through-beam Edge Sensor Consumption Value (2021-2032)
- 4.3 Europe Through-beam Edge Sensor Consumption Value (2021-2032)
- 4.4 Asia-Pacific Through-beam Edge Sensor Consumption Value (2021-2032)
- 4.5 South America Through-beam Edge Sensor Consumption Value (2021-2032)
- 4.6 Middle East & Africa Through-beam Edge Sensor Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Through-beam Edge Sensor Sales Quantity by Type (2021-2032)
- 5.2 Global Through-beam Edge Sensor Consumption Value by Type (2021-2032)
- 5.3 Global Through-beam Edge Sensor Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Through-beam Edge Sensor Sales Quantity by Application (2021-2032)

6.2 Global Through-beam Edge Sensor Consumption Value by Application (2021-2032)

6.3 Global Through-beam Edge Sensor Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Through-beam Edge Sensor Sales Quantity by Type (2021-2032)

7.2 North America Through-beam Edge Sensor Sales Quantity by Application (2021-2032)

7.3 North America Through-beam Edge Sensor Market Size by Country

7.3.1 North America Through-beam Edge Sensor Sales Quantity by Country (2021-2032)

7.3.2 North America Through-beam Edge Sensor Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Through-beam Edge Sensor Sales Quantity by Type (2021-2032)

8.2 Europe Through-beam Edge Sensor Sales Quantity by Application (2021-2032)

8.3 Europe Through-beam Edge Sensor Market Size by Country

8.3.1 Europe Through-beam Edge Sensor Sales Quantity by Country (2021-2032)

8.3.2 Europe Through-beam Edge Sensor Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Through-beam Edge Sensor Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Through-beam Edge Sensor Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Through-beam Edge Sensor Market Size by Region

9.3.1 Asia-Pacific Through-beam Edge Sensor Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Through-beam Edge Sensor Consumption Value by Region (2021-2032)

- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Through-beam Edge Sensor Sales Quantity by Type (2021-2032)
- 10.2 South America Through-beam Edge Sensor Sales Quantity by Application (2021-2032)
- 10.3 South America Through-beam Edge Sensor Market Size by Country
 - 10.3.1 South America Through-beam Edge Sensor Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Through-beam Edge Sensor Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Through-beam Edge Sensor Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Through-beam Edge Sensor Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Through-beam Edge Sensor Market Size by Country
 - 11.3.1 Middle East & Africa Through-beam Edge Sensor Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Through-beam Edge Sensor Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Through-beam Edge Sensor Market Drivers

12.2 Through-beam Edge Sensor Market Restraints

12.3 Through-beam Edge Sensor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Through-beam Edge Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Through-beam Edge Sensor

13.3 Through-beam Edge Sensor Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Through-beam Edge Sensor Typical Distributors

14.3 Through-beam Edge Sensor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Through-beam Edge Sensor Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Through-beam Edge Sensor Consumption Value by Optical Structure, (USD Million), 2021 & 2025 & 2032

Table 3. Global Through-beam Edge Sensor Consumption Value by Installation Method, (USD Million), 2021 & 2025 & 2032

Table 4. Global Through-beam Edge Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Akusense Basic Information, Manufacturing Base and Competitors

Table 6. Akusense Major Business

Table 7. Akusense Through-beam Edge Sensor Product and Services

Table 8. Akusense Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Akusense Recent Developments/Updates

Table 10. OPTEX FA Basic Information, Manufacturing Base and Competitors

Table 11. OPTEX FA Major Business

Table 12. OPTEX FA Through-beam Edge Sensor Product and Services

Table 13. OPTEX FA Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. OPTEX FA Recent Developments/Updates

Table 15. SinceVision Basic Information, Manufacturing Base and Competitors

Table 16. SinceVision Major Business

Table 17. SinceVision Through-beam Edge Sensor Product and Services

Table 18. SinceVision Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. SinceVision Recent Developments/Updates

Table 20. Baumer Basic Information, Manufacturing Base and Competitors

Table 21. Baumer Major Business

Table 22. Baumer Through-beam Edge Sensor Product and Services

Table 23. Baumer Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Baumer Recent Developments/Updates

Table 25. Leuze Basic Information, Manufacturing Base and Competitors

Table 26. Leuze Major Business

Table 27. Leuze Through-beam Edge Sensor Product and Services

Table 28. Leuze Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Leuze Recent Developments/Updates

Table 30. Wenglor Basic Information, Manufacturing Base and Competitors

Table 31. Wenglor Major Business

Table 32. Wenglor Through-beam Edge Sensor Product and Services

Table 33. Wenglor Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Wenglor Recent Developments/Updates

Table 35. LANBAO Basic Information, Manufacturing Base and Competitors

Table 36. LANBAO Major Business

Table 37. LANBAO Through-beam Edge Sensor Product and Services

Table 38. LANBAO Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. LANBAO Recent Developments/Updates

Table 40. GTRIC Basic Information, Manufacturing Base and Competitors

Table 41. GTRIC Major Business

Table 42. GTRIC Through-beam Edge Sensor Product and Services

Table 43. GTRIC Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. GTRIC Recent Developments/Updates

Table 45. Pepperl+Fuchs Basic Information, Manufacturing Base and Competitors

Table 46. Pepperl+Fuchs Major Business

Table 47. Pepperl+Fuchs Through-beam Edge Sensor Product and Services

Table 48. Pepperl+Fuchs Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Pepperl+Fuchs Recent Developments/Updates

Table 50. Tech Mate Basic Information, Manufacturing Base and Competitors

Table 51. Tech Mate Major Business

Table 52. Tech Mate Through-beam Edge Sensor Product and Services

Table 53. Tech Mate Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Tech Mate Recent Developments/Updates

Table 55. Autonics Basic Information, Manufacturing Base and Competitors

Table 56. Autonics Major Business

Table 57. Autonics Through-beam Edge Sensor Product and Services

Table 58. Autonics Through-beam Edge Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Autonics Recent Developments/Updates

Table 60. Global Through-beam Edge Sensor Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 61. Global Through-beam Edge Sensor Revenue by Manufacturer (2021-2026) & (USD Million)

Table 62. Global Through-beam Edge Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 63. Market Position of Manufacturers in Through-beam Edge Sensor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 64. Head Office and Through-beam Edge Sensor Production Site of Key Manufacturer

Table 65. Through-beam Edge Sensor Market: Company Product Type Footprint

Table 66. Through-beam Edge Sensor Market: Company Product Application Footprint

Table 67. Through-beam Edge Sensor New Market Entrants and Barriers to Market Entry

Table 68. Through-beam Edge Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 69. Global Through-beam Edge Sensor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 70. Global Through-beam Edge Sensor Sales Quantity by Region (2021-2026) & (K Units)

Table 71. Global Through-beam Edge Sensor Sales Quantity by Region (2027-2032) & (K Units)

Table 72. Global Through-beam Edge Sensor Consumption Value by Region (2021-2026) & (USD Million)

Table 73. Global Through-beam Edge Sensor Consumption Value by Region (2027-2032) & (USD Million)

Table 74. Global Through-beam Edge Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 75. Global Through-beam Edge Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 76. Global Through-beam Edge Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 77. Global Through-beam Edge Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 78. Global Through-beam Edge Sensor Consumption Value by Type (2021-2026) & (USD Million)

Table 79. Global Through-beam Edge Sensor Consumption Value by Type (2027-2032) & (USD Million)

Table 80. Global Through-beam Edge Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 81. Global Through-beam Edge Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 82. Global Through-beam Edge Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 83. Global Through-beam Edge Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 84. Global Through-beam Edge Sensor Consumption Value by Application (2021-2026) & (USD Million)

Table 85. Global Through-beam Edge Sensor Consumption Value by Application (2027-2032) & (USD Million)

Table 86. Global Through-beam Edge Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 87. Global Through-beam Edge Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 88. North America Through-beam Edge Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 89. North America Through-beam Edge Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 90. North America Through-beam Edge Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 91. North America Through-beam Edge Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 92. North America Through-beam Edge Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 93. North America Through-beam Edge Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 94. North America Through-beam Edge Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 95. North America Through-beam Edge Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 96. Europe Through-beam Edge Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 97. Europe Through-beam Edge Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 98. Europe Through-beam Edge Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 99. Europe Through-beam Edge Sensor Sales Quantity by Application

(2027-2032) & (K Units)

Table 100. Europe Through-beam Edge Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 101. Europe Through-beam Edge Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 102. Europe Through-beam Edge Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 103. Europe Through-beam Edge Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 104. Asia-Pacific Through-beam Edge Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 105. Asia-Pacific Through-beam Edge Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 106. Asia-Pacific Through-beam Edge Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 107. Asia-Pacific Through-beam Edge Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 108. Asia-Pacific Through-beam Edge Sensor Sales Quantity by Region (2021-2026) & (K Units)

Table 109. Asia-Pacific Through-beam Edge Sensor Sales Quantity by Region (2027-2032) & (K Units)

Table 110. Asia-Pacific Through-beam Edge Sensor Consumption Value by Region (2021-2026) & (USD Million)

Table 111. Asia-Pacific Through-beam Edge Sensor Consumption Value by Region (2027-2032) & (USD Million)

Table 112. South America Through-beam Edge Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 113. South America Through-beam Edge Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 114. South America Through-beam Edge Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 115. South America Through-beam Edge Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 116. South America Through-beam Edge Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 117. South America Through-beam Edge Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 118. South America Through-beam Edge Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 119. South America Through-beam Edge Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 120. Middle East & Africa Through-beam Edge Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 121. Middle East & Africa Through-beam Edge Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 122. Middle East & Africa Through-beam Edge Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 123. Middle East & Africa Through-beam Edge Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 124. Middle East & Africa Through-beam Edge Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 125. Middle East & Africa Through-beam Edge Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 126. Middle East & Africa Through-beam Edge Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 127. Middle East & Africa Through-beam Edge Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 128. Through-beam Edge Sensor Raw Material

Table 129. Key Manufacturers of Through-beam Edge Sensor Raw Materials

Table 130. Through-beam Edge Sensor Typical Distributors

Table 131. Through-beam Edge Sensor Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Through-beam Edge Sensor Picture
- Figure 2. Global Through-beam Edge Sensor Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Through-beam Edge Sensor Revenue Market Share by Type in 2025
- Figure 4. Analog Output Type Examples
- Figure 5. Digital Output Type Examples
- Figure 6. On/Off Selectable Type Examples
- Figure 7. Global Through-beam Edge Sensor Revenue by Optical Structure, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Through-beam Edge Sensor Revenue Market Share by Optical Structure in 2025
- Figure 9. Transmissive Type Examples
- Figure 10. Reflective Type Examples
- Figure 11. Polarization Filter Type Examples
- Figure 12. Background Suppression Type Examples
- Figure 13. Global Through-beam Edge Sensor Revenue by Installation Method, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Through-beam Edge Sensor Revenue Market Share by Installation Method in 2025
- Figure 15. Repeatability: 1 ?m Examples
- Figure 16. Repeatability: 5 ?m Examples
- Figure 17. Others Examples
- Figure 18. Global Through-beam Edge Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Through-beam Edge Sensor Revenue Market Share by Application in 2025
- Figure 20. Metalworking Examples
- Figure 21. Printing Examples
- Figure 22. Packaging Examples
- Figure 23. Others Examples
- Figure 24. Global Through-beam Edge Sensor Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Through-beam Edge Sensor Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 26. Global Through-beam Edge Sensor Sales Quantity (2021-2032) & (K Units)

Figure 27. Global Through-beam Edge Sensor Price (2021-2032) & (US\$/Unit)

Figure 28. Global Through-beam Edge Sensor Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Through-beam Edge Sensor Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Through-beam Edge Sensor by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Through-beam Edge Sensor Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Through-beam Edge Sensor Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Through-beam Edge Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Through-beam Edge Sensor Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Through-beam Edge Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Through-beam Edge Sensor Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Through-beam Edge Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global Through-beam Edge Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Through-beam Edge Sensor Revenue Market Share by Application (2021-2032)

Figure 45. Global Through-beam Edge Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America Through-beam Edge Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Through-beam Edge Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Through-beam Edge Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Through-beam Edge Sensor Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Through-beam Edge Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Through-beam Edge Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Through-beam Edge Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Through-beam Edge Sensor Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 58. France Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Through-beam Edge Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Through-beam Edge Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Through-beam Edge Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Through-beam Edge Sensor Consumption Value Market Share by Region (2021-2032)

Figure 66. China Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Million)

Figure 67. Japan Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 69. India Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Through-beam Edge Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Through-beam Edge Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Through-beam Edge Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Through-beam Edge Sensor Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Through-beam Edge Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Through-beam Edge Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Through-beam Edge Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Through-beam Edge Sensor Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Through-beam Edge Sensor Consumption Value (2021-2032) & (USD Million)

Figure 86. Through-beam Edge Sensor Market Drivers

Figure 87. Through-beam Edge Sensor Market Restraints

Figure 88. Through-beam Edge Sensor Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Through-beam Edge Sensor in 2025

Figure 91. Manufacturing Process Analysis of Through-beam Edge Sensor

Figure 92. Through-beam Edge Sensor Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

I would like to order

Product name: Global Through-beam Edge Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/GECFCD4EFDB2EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GECFCD4EFDB2EN.html>