

# Global Infrared Automatic Door Sensor Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Infrared Automatic Door Sensor competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. To address the need for contactless access and anti-pinch safety at public building entrances, infrared automatic door sensors have become an indispensable key sensing component in scenarios such as shopping malls, hospitals, and office buildings. With their sensitive detection of human presence and movement, they provide reliable technical support for automatic opening and closing control and safety protection. Infrared automatic door sensors are the core front-end component of automatic door systems. They use active or passive infrared technology to sense the presence, movement, or stillness of people or objects in front of the door, and output switch and safety protection signals to the door controller. This enables functions such as "open when someone is present, close when no one is present" and anti-pinch and anti-collision features. They are widely used at entrances of public buildings such as shopping malls, hospitals, office buildings, airports, and rail transit stations. In 2024, the global market price for infrared automatic door sensors was \$54 per unit, with sales of approximately 8.055 million units and a global production capacity of 8.5-9 million units. The industry profit margin was 20-30%. Global Market Landscape Globally, infrared automatic door sensors represent a segment of the automatic door sensor market, forming a significant segment alongside microwave and laser sensors. North America, Europe, and the Asia-Pacific region are the main demand areas, with the Asia-Pacific region already accounting for over 30% of the overall automatic door market and showing the fastest growth rate. In the North American market, the United States holds a dominant position, with commercial and industrial buildings being the primary application areas for sensors. Upstream and Downstream Supply Chain Analysis In

terms of the upstream and downstream supply chains, the upstream focuses on suppliers of infrared transmitting/receiving devices, optical lenses and filters, MCUs/ASICs, power supplies and EMC devices, plastic housings, and wiring harnesses. Some manufacturers also develop or integrate microwave radar modules to create dual-technology sensing with infrared sensors. Downstream customers primarily include automatic door manufacturers (such as brands under ASSA ABLOY and TORMAX), building window and curtain wall engineering companies, security and low-voltage system integrators, and end users such as large commercial real estate developers, hospital groups, chain retailers, and rail transit/airport owners.

**Technology Trends and Innovations** First, there's the evolution from single infrared sensors to multi-sensor fusion of "infrared + microwave/laser," reducing false alarms and improving safety by differentiating pedestrian direction, speed, and stopping behavior. Second, the introduction of active infrared arrays and adaptive algorithms enables real-time compensation for changes in ground reflection, ambient light interference, and temperature and humidity, improving reliability in glass curtain walls and high-light environments. Third, at the interface level, there's an expansion from traditional relays/dry contacts to bus and digital interfaces, facilitating integration with access control, building automation (BAS), fire alarm systems, and energy management systems, supporting remote diagnostics and parameter distribution.

**Policy Support** At the policy and standards level, local building codes, accessibility design standards, and safety standards impose requirements on the safety performance of automatic doors, such as mandatory anti-pinch protection, safety light curtains, or presence detection functions, indirectly promoting the configuration of high-performance infrared sensors. Simultaneously, energy-saving standards for public buildings encourage the use of automatic doors to reduce the loss of heating and cooling air, enhancing the importance of sensors in energy-saving control. The emphasis placed on efficient personnel passage, hygiene and safety, and contactless access in airports, hospitals, and other venues in developed countries also objectively supports the incremental market for automatic doors and their sensors.

**Future Outlook** Looking ahead, infrared automatic door sensors will continue to evolve in three directions: First, becoming "more intelligent," by embedding simple edge computing and pattern recognition to achieve differentiated identification of targets such as adults, children, strollers, and wheelchairs, adjusting the opening degree and speed in conjunction with the door operator; second, becoming "more systematic," gradually moving from single components to "sensing + control + complete door solutions," with leading manufacturers deeply integrating with automatic door brands; and third, becoming "more regionalized," developing cost-effective, high-temperature/high-humidity resistant products tailored to local building habits and climates in emerging markets such as the Asia-Pacific, Middle East, and Latin America. Overall, with the renewal of existing public buildings globally, the

increasing demand for hygiene and contactless access, and the advancement of energy conservation and emission reduction goals, infrared automatic door sensors will continue to maintain steady growth and play a more fundamental sensing role in the construction of smart buildings and smart cities.

The global Infrared Automatic Door Sensor market size was estimated at USD 435.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Infrared Automatic Door Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Infrared Automatic Door Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Infrared Automatic Door Sensor market.

### **Global Infrared Automatic Door Sensor Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their

product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Rotech  
Hotron  
Optex  
Bosch  
InvenSense  
Honeywell  
BEA  
NABCO  
RITS-N  
Pepperl+Fuchs  
BBC Bircher

### **Market Segmentation (by Type)**

Active Infrared Automatic Door Sensor  
Passive Infrared Automatic Door Sensor

### **Market Segmentation (by Application)**

Commercial Buildings  
Medical and Public Service  
Transportation and Industry

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Infrared Automatic Door Sensor Market

Overview of the regional outlook of the Infrared Automatic Door Sensor Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Infrared Automatic Door Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream

and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Infrared Automatic Door Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Infrared Automatic Door Sensor
- 1.2 Key Market Segments
  - 1.2.1 Infrared Automatic Door Sensor Segment by Type
  - 1.2.2 Infrared Automatic Door Sensor Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 INFRARED AUTOMATIC DOOR SENSOR MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Infrared Automatic Door Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Infrared Automatic Door Sensor Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 INFRARED AUTOMATIC DOOR SENSOR MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Infrared Automatic Door Sensor Product Life Cycle
- 3.3 Global Infrared Automatic Door Sensor Sales by Manufacturers (2020-2025)
- 3.4 Global Infrared Automatic Door Sensor Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Infrared Automatic Door Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Infrared Automatic Door Sensor Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Infrared Automatic Door Sensor Market Competitive Situation and Trends
  - 3.8.1 Infrared Automatic Door Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Infrared Automatic Door Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

## **4 INFRARED AUTOMATIC DOOR SENSOR INDUSTRY CHAIN ANALYSIS**

4.1 Infrared Automatic Door Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF INFRARED AUTOMATIC DOOR SENSOR MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Infrared Automatic Door Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Infrared Automatic Door Sensor Market

5.7 ESG Ratings of Leading Companies

## **6 INFRARED AUTOMATIC DOOR SENSOR MARKET SEGMENTATION BY TYPE**

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Infrared Automatic Door Sensor Sales Market Share by Type (2020-2025)

6.3 Global Infrared Automatic Door Sensor Market Size by Type (2020-2025)

6.4 Global Infrared Automatic Door Sensor Price by Type (2020-2025)

## **7 INFRARED AUTOMATIC DOOR SENSOR MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Infrared Automatic Door Sensor Market Sales by Application (2020-2025)

7.3 Global Infrared Automatic Door Sensor Market Size (M USD) by Application (2020-2025)

7.4 Global Infrared Automatic Door Sensor Sales Growth Rate by Application (2020-2025)

## **8 INFRARED AUTOMATIC DOOR SENSOR MARKET SALES BY REGION**

8.1 Global Infrared Automatic Door Sensor Sales by Region

8.1.1 Global Infrared Automatic Door Sensor Sales by Region

8.1.2 Global Infrared Automatic Door Sensor Sales Market Share by Region

8.2 Global Infrared Automatic Door Sensor Market Size by Region

8.2.1 Global Infrared Automatic Door Sensor Market Size by Region

8.2.2 Global Infrared Automatic Door Sensor Market Size by Region

8.3 North America

8.3.1 North America Infrared Automatic Door Sensor Sales by Country

8.3.2 North America Infrared Automatic Door Sensor Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Infrared Automatic Door Sensor Sales by Country

8.4.2 Europe Infrared Automatic Door Sensor Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Infrared Automatic Door Sensor Sales by Region

8.5.2 Asia Pacific Infrared Automatic Door Sensor Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Infrared Automatic Door Sensor Sales by Country
  - 8.6.2 South America Infrared Automatic Door Sensor Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Infrared Automatic Door Sensor Sales by Region
  - 8.7.2 Middle East and Africa Infrared Automatic Door Sensor Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 INFRARED AUTOMATIC DOOR SENSOR MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Infrared Automatic Door Sensor by Region(2020-2025)
- 9.2 Global Infrared Automatic Door Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Infrared Automatic Door Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Infrared Automatic Door Sensor Production
  - 9.4.1 North America Infrared Automatic Door Sensor Production Growth Rate (2020-2025)
  - 9.4.2 North America Infrared Automatic Door Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Infrared Automatic Door Sensor Production
  - 9.5.1 Europe Infrared Automatic Door Sensor Production Growth Rate (2020-2025)
  - 9.5.2 Europe Infrared Automatic Door Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Infrared Automatic Door Sensor Production (2020-2025)
  - 9.6.1 Japan Infrared Automatic Door Sensor Production Growth Rate (2020-2025)
  - 9.6.2 Japan Infrared Automatic Door Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Infrared Automatic Door Sensor Production (2020-2025)

- 9.7.1 China Infrared Automatic Door Sensor Production Growth Rate (2020-2025)
- 9.7.2 China Infrared Automatic Door Sensor Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

### 10.1 Rotech

- 10.1.1 Rotech Basic Information
- 10.1.2 Rotech Infrared Automatic Door Sensor Product Overview
- 10.1.3 Rotech Infrared Automatic Door Sensor Product Market Performance
- 10.1.4 Rotech Business Overview
- 10.1.5 Rotech SWOT Analysis
- 10.1.6 Rotech Recent Developments

### 10.2 Hotron

- 10.2.1 Hotron Basic Information
- 10.2.2 Hotron Infrared Automatic Door Sensor Product Overview
- 10.2.3 Hotron Infrared Automatic Door Sensor Product Market Performance
- 10.2.4 Hotron Business Overview
- 10.2.5 Hotron SWOT Analysis
- 10.2.6 Hotron Recent Developments

### 10.3 Optex

- 10.3.1 Optex Basic Information
- 10.3.2 Optex Infrared Automatic Door Sensor Product Overview
- 10.3.3 Optex Infrared Automatic Door Sensor Product Market Performance
- 10.3.4 Optex Business Overview
- 10.3.5 Optex SWOT Analysis
- 10.3.6 Optex Recent Developments

### 10.4 Bosch

- 10.4.1 Bosch Basic Information
- 10.4.2 Bosch Infrared Automatic Door Sensor Product Overview
- 10.4.3 Bosch Infrared Automatic Door Sensor Product Market Performance
- 10.4.4 Bosch Business Overview
- 10.4.5 Bosch Recent Developments

### 10.5 InvenSense

- 10.5.1 InvenSense Basic Information
- 10.5.2 InvenSense Infrared Automatic Door Sensor Product Overview
- 10.5.3 InvenSense Infrared Automatic Door Sensor Product Market Performance
- 10.5.4 InvenSense Business Overview
- 10.5.5 InvenSense Recent Developments

## 10.6 Honeywell

10.6.1 Honeywell Basic Information

10.6.2 Honeywell Infrared Automatic Door Sensor Product Overview

10.6.3 Honeywell Infrared Automatic Door Sensor Product Market Performance

10.6.4 Honeywell Business Overview

10.6.5 Honeywell Recent Developments

## 10.7 BEA

10.7.1 BEA Basic Information

10.7.2 BEA Infrared Automatic Door Sensor Product Overview

10.7.3 BEA Infrared Automatic Door Sensor Product Market Performance

10.7.4 BEA Business Overview

10.7.5 BEA Recent Developments

## 10.8 NABCO

10.8.1 NABCO Basic Information

10.8.2 NABCO Infrared Automatic Door Sensor Product Overview

10.8.3 NABCO Infrared Automatic Door Sensor Product Market Performance

10.8.4 NABCO Business Overview

10.8.5 NABCO Recent Developments

## 10.9 RITS-N

10.9.1 RITS-N Basic Information

10.9.2 RITS-N Infrared Automatic Door Sensor Product Overview

10.9.3 RITS-N Infrared Automatic Door Sensor Product Market Performance

10.9.4 RITS-N Business Overview

10.9.5 RITS-N Recent Developments

## 10.10 Pepperl+Fuchs

10.10.1 Pepperl+Fuchs Basic Information

10.10.2 Pepperl+Fuchs Infrared Automatic Door Sensor Product Overview

10.10.3 Pepperl+Fuchs Infrared Automatic Door Sensor Product Market Performance

10.10.4 Pepperl+Fuchs Business Overview

10.10.5 Pepperl+Fuchs Recent Developments

## 10.11 BBC Bircher

10.11.1 BBC Bircher Basic Information

10.11.2 BBC Bircher Infrared Automatic Door Sensor Product Overview

10.11.3 BBC Bircher Infrared Automatic Door Sensor Product Market Performance

10.11.4 BBC Bircher Business Overview

10.11.5 BBC Bircher Recent Developments

## **11 INFRARED AUTOMATIC DOOR SENSOR MARKET FORECAST BY REGION**

11.1 Global Infrared Automatic Door Sensor Market Size Forecast

11.2 Global Infrared Automatic Door Sensor Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Infrared Automatic Door Sensor Market Size Forecast by Country

11.2.3 Asia Pacific Infrared Automatic Door Sensor Market Size Forecast by Region

11.2.4 South America Infrared Automatic Door Sensor Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Infrared Automatic Door Sensor by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Infrared Automatic Door Sensor Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Infrared Automatic Door Sensor by Type (2026-2035)

12.1.2 Global Infrared Automatic Door Sensor Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Infrared Automatic Door Sensor by Type (2026-2035)

12.2 Global Infrared Automatic Door Sensor Market Forecast by Application (2026-2035)

12.2.1 Global Infrared Automatic Door Sensor Sales (K Units) Forecast by Application

12.2.2 Global Infrared Automatic Door Sensor Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Infrared Automatic Door Sensor Market Size by Type (M USD)
- Table 4. Global Infrared Automatic Door Sensor Market Size by Application
- Table 5. Infrared Automatic Door Sensor Market Size Comparison by Region (M USD)
- Table 6. Global Infrared Automatic Door Sensor Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Infrared Automatic Door Sensor Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Infrared Automatic Door Sensor Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Infrared Automatic Door Sensor Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Infrared Automatic Door Sensor as of 2025)
- Table 11. Global Market Infrared Automatic Door Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Infrared Automatic Door Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Infrared Automatic Door Sensor Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Infrared Automatic Door Sensor Sales by Type (K Units)
- Table 27. Global Infrared Automatic Door Sensor Market Size by Type (M USD)

- Table 28. Global Infrared Automatic Door Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Infrared Automatic Door Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Infrared Automatic Door Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Infrared Automatic Door Sensor Market Share by Type (2020-2025)
- Table 32. Global Infrared Automatic Door Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Infrared Automatic Door Sensor Sales (K Units) by Application
- Table 34. Global Infrared Automatic Door Sensor Market Size by Application
- Table 35. Global Infrared Automatic Door Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Infrared Automatic Door Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Infrared Automatic Door Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Infrared Automatic Door Sensor Market Share by Application (2020-2025)
- Table 39. Global Infrared Automatic Door Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Infrared Automatic Door Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Infrared Automatic Door Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Infrared Automatic Door Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Infrared Automatic Door Sensor Market Size by Region (2020-2025)
- Table 44. North America Infrared Automatic Door Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Infrared Automatic Door Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Infrared Automatic Door Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Infrared Automatic Door Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Infrared Automatic Door Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Infrared Automatic Door Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Infrared Automatic Door Sensor Sales by Country (2020-2025)

& (K Units)

Table 51. South America Infrared Automatic Door Sensor Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Infrared Automatic Door Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Infrared Automatic Door Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global Infrared Automatic Door Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Infrared Automatic Door Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Infrared Automatic Door Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Infrared Automatic Door Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Infrared Automatic Door Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Infrared Automatic Door Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Infrared Automatic Door Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Infrared Automatic Door Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Rotech Basic Information

Table 63. Rotech Infrared Automatic Door Sensor Product Overview

Table 64. Rotech Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Rotech Business Overview

Table 66. Rotech SWOT Analysis

Table 67. Rotech Recent Developments

Table 68. Hotron Basic Information

Table 69. Hotron Infrared Automatic Door Sensor Product Overview

Table 70. Hotron Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Hotron Business Overview

Table 72. Hotron SWOT Analysis

Table 73. Hotron Recent Developments

Table 74. Optex Basic Information

Table 75. Optex Infrared Automatic Door Sensor Product Overview

Table 76. Optex Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Optex Business Overview

Table 78. Optex SWOT Analysis

Table 79. Optex Recent Developments

Table 80. Bosch Basic Information

Table 81. Bosch Infrared Automatic Door Sensor Product Overview

Table 82. Bosch Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Bosch Business Overview

Table 84. Bosch Recent Developments

Table 85. InvenSense Basic Information

Table 86. InvenSense Infrared Automatic Door Sensor Product Overview

Table 87. InvenSense Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. InvenSense Business Overview

Table 89. InvenSense Recent Developments

Table 90. Honeywell Basic Information

Table 91. Honeywell Infrared Automatic Door Sensor Product Overview

Table 92. Honeywell Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Honeywell Business Overview

Table 94. Honeywell Recent Developments

Table 95. BEA Basic Information

Table 96. BEA Infrared Automatic Door Sensor Product Overview

Table 97. BEA Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. BEA Business Overview

Table 99. BEA Recent Developments

Table 100. NABCO Basic Information

Table 101. NABCO Infrared Automatic Door Sensor Product Overview

Table 102. NABCO Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. NABCO Business Overview

Table 104. NABCO Recent Developments

Table 105. RITS-N Basic Information

Table 106. RITS-N Infrared Automatic Door Sensor Product Overview

Table 107. RITS-N Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. RITS-N Business Overview

Table 109. RITS-N Recent Developments

Table 110. Pepperl+Fuchs Basic Information

Table 111. Pepperl+Fuchs Infrared Automatic Door Sensor Product Overview

Table 112. Pepperl+Fuchs Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Pepperl+Fuchs Business Overview

Table 114. Pepperl+Fuchs Recent Developments

Table 115. BBC Bircher Basic Information

Table 116. BBC Bircher Infrared Automatic Door Sensor Product Overview

Table 117. BBC Bircher Infrared Automatic Door Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. BBC Bircher Business Overview

Table 119. BBC Bircher Recent Developments

Table 120. Global Infrared Automatic Door Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 121. Global Infrared Automatic Door Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 122. North America Infrared Automatic Door Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 123. North America Infrared Automatic Door Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 124. Europe Infrared Automatic Door Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 125. Europe Infrared Automatic Door Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 126. Asia Pacific Infrared Automatic Door Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 127. Asia Pacific Infrared Automatic Door Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 128. South America Infrared Automatic Door Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 129. South America Infrared Automatic Door Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 130. Middle East and Africa Infrared Automatic Door Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 131. Middle East and Africa Infrared Automatic Door Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 132. Global Infrared Automatic Door Sensor Sales Forecast by Type (2026-2035)

& (K Units)

Table 133. Global Infrared Automatic Door Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global Infrared Automatic Door Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 135. Global Infrared Automatic Door Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 136. Global Infrared Automatic Door Sensor Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Infrared Automatic Door Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Infrared Automatic Door Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Infrared Automatic Door Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Infrared Automatic Door Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Infrared Automatic Door Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Infrared Automatic Door Sensor Product Life Cycle
- Figure 13. Infrared Automatic Door Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Infrared Automatic Door Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Infrared Automatic Door Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Infrared Automatic Door Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Infrared Automatic Door Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Infrared Automatic Door Sensor
- Figure 19. Global Infrared Automatic Door Sensor Market PEST Analysis
- Figure 20. Global Infrared Automatic Door Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Infrared Automatic Door Sensor Market Share by Type
- Figure 27. Sales Market Share of Infrared Automatic Door Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Infrared Automatic Door Sensor by Type in 2025
- Figure 29. Market Share of Infrared Automatic Door Sensor by Type (2020-2025)
- Figure 30. Market Share of Infrared Automatic Door Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Infrared Automatic Door Sensor Market Share by Application
- Figure 33. Global Infrared Automatic Door Sensor Sales Market Share by Application (2020-2025)
- Figure 34. Global Infrared Automatic Door Sensor Sales Market Share by Application in 2025
- Figure 35. Global Infrared Automatic Door Sensor Market Share by Application (2020-2025)
- Figure 36. Global Infrared Automatic Door Sensor Market Share by Application in 2025
- Figure 37. Global Infrared Automatic Door Sensor Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Infrared Automatic Door Sensor Sales Market Share by Region (2020-2025)
- Figure 39. Global Infrared Automatic Door Sensor Market Size by Region (2020-2025)
- Figure 40. North America Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Infrared Automatic Door Sensor Sales Market Share by Country in 2024
- Figure 43. North America Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Infrared Automatic Door Sensor Market Size by Country in 2024
- Figure 45. U.S. Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Infrared Automatic Door Sensor Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Infrared Automatic Door Sensor Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Infrared Automatic Door Sensor Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Infrared Automatic Door Sensor Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Infrared Automatic Door Sensor Sales Market Share by Country in 2024

Figure 53. Europe Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Infrared Automatic Door Sensor Market Size by Country in 2024

Figure 55. Germany Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Infrared Automatic Door Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Infrared Automatic Door Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Infrared Automatic Door Sensor Market Size by Region in 2024

Figure 68. China Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Infrared Automatic Door Sensor Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 74. India Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Infrared Automatic Door Sensor Sales and Growth Rate (K Units)

Figure 79. South America Infrared Automatic Door Sensor Sales Market Share by Country in 2024

Figure 80. South America Infrared Automatic Door Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Infrared Automatic Door Sensor Market Size by Country in 2024

Figure 82. Brazil Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Infrared Automatic Door Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Infrared Automatic Door Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Infrared Automatic Door Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Infrared Automatic Door Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Infrared Automatic Door Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Infrared Automatic Door Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Infrared Automatic Door Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Infrared Automatic Door Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Infrared Automatic Door Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Infrared Automatic Door Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Infrared Automatic Door Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Infrared Automatic Door Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Infrared Automatic Door Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Infrared Automatic Door Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Infrared Automatic Door Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Infrared Automatic Door Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Infrared Automatic Door Sensor Market Share Forecast by

Application (2026-2035)

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