

# Global Infrared Anti-Collision Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Infrared Anti-Collision Sensor market size is expected to reach \$ 7630 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

Infrared anti-collision sensors are electronic sensing devices that detect nearby objects by emitting and receiving infrared signals, enabling obstacle detection, proximity measurement, and collision avoidance in automated and mobile systems. These sensors are widely used in industrial automation, robotics, automated guided vehicles (AGVs), smart appliances, automotive driver assistance systems, and safety monitoring applications. From a value chain perspective, upstream activities include infrared emitters and receivers, semiconductor components, optical lenses, and circuit substrates, midstream processes focus on sensor module design, signal processing integration, calibration, and assembly, while downstream demand is driven by robotics manufacturers, automotive OEMs, industrial equipment producers, consumer electronics brands, and system integrators. In 2025, the average selling price of infrared anti-collision sensors is approximately US\$42 per unit, with global sales volume reaching around 96 million units. The industry maintains a gross margin of 30%?48%, supported by scale production efficiency, integration with control systems, safety certification requirements, and expanding applications in automation and mobility.

Industry analysis indicates that infrared anti-collision sensors remain a cost-effective and low-power solution for short-range obstacle detection, particularly in indoor automation and consumer applications. While lidar and ultrasonic technologies are expanding, infrared sensing continues to dominate in compact, low-cost, and high-volume markets.

This report studies the global Infrared Anti-Collision Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Anti-Collision Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Infrared Anti-Collision Sensor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Infrared Anti-Collision Sensor total production and demand, 2021-2032, (K Units)

Global Infrared Anti-Collision Sensor total production value, 2021-2032, (USD Million)

Global Infrared Anti-Collision Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Infrared Anti-Collision Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Infrared Anti-Collision Sensor domestic production, consumption, key domestic manufacturers and share

Global Infrared Anti-Collision Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Infrared Anti-Collision Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Infrared Anti-Collision Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Infrared Anti-Collision Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Omron, Keyence, SICK, Pepperl+Fuchs, Banner Engineering, Panasonic, Sharp, STMicroelectronics, Vishay, Broadcom, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Infrared Anti-Collision Sensor market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Infrared Anti-Collision Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Infrared Anti-Collision Sensor Market, Segmentation by Type:

Short-range (?1m)

Medium-range (1?5m)

Long-range (>5m)

#### Global Infrared Anti-Collision Sensor Market, Segmentation by Output Type:

Analog Output

Digital Output

Serial Communication Output

Global Infrared Anti-Collision Sensor Market, Segmentation by Installation Type:

Embedded Sensors

Standalone Modules

Integrated Safety Units

Global Infrared Anti-Collision Sensor Market, Segmentation by Application:

Industrial Automation

Robotics & AGV

Automotive Safety

Consumer Electronics

Companies Profiled:

Omron

Keyence

SICK

Pepperl+Fuchs

Banner Engineering

Panasonic

Sharp

STMicroelectronics

Vishay

Broadcom

Hikvision

Hollysys

**Key Questions Answered:**

1. How big is the global Infrared Anti-Collision Sensor market?
2. What is the demand of the global Infrared Anti-Collision Sensor market?
3. What is the year over year growth of the global Infrared Anti-Collision Sensor market?
4. What is the production and production value of the global Infrared Anti-Collision Sensor market?
5. Who are the key producers in the global Infrared Anti-Collision Sensor market?
6. What are the growth factors driving the market demand?

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