

Global Robot Sensor Market Growth 2025-2031

<https://marketpublishers.com/r/G786E43A64DEN.html>

Date: March 2025

Pages: 110

Price: US\$ 3,660.00 (Single User License)

ID: G786E43A64DEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Robot Sensor market size is predicted to grow from US\$ 934 million in 2025 to US\$ 1415 million in 2031; it is expected to grow at a CAGR of 7.2% from 2025 to 2031.

Robotic sensors are used to estimate a robot's condition and environment. These signals are passed to a controller to enable appropriate behavior. Sensors in robots are based on the functions of human sensory organs. Robots require extensive information about their environment in order to function effectively. This report mainly focuses on the field of sensors for industrial robots.

Global Robot Sensor key players include Cognex, Baluff Ag, Baumer Group, Ifm Electronic Gmbh, Keyence, etc. Global top five manufacturers hold a share about 40%. China is the largest market, with a share about 40%, followed by Europe and Japan, both have a share over 25 percent. In terms of product, Vision Sensors is the largest segment, with a share about 35%. And in terms of application, the largest application is Electronics Manufacturing, followed by Automotive.

There are many driving factors in the robot sensor market, mainly including the following aspects:

1. Technological progress and innovation

Improvement of sensor technology: With the continuous advancement of sensor technology, the accuracy, stability, reliability and response speed of sensors have been significantly improved, making the application of sensors in the field of robots more extensive and in-depth.

Application of new materials: The application of new materials, such as nanomaterials and smart materials, provides more possibilities for the manufacture of sensors, further promoting the development of sensor technology.

2. Growth of market demand

Demand for industrial automation: With the advancement of Industry 4.0 and the Industrial Internet of Things, the level of industrial automation continues to improve, and the demand for sensors continues to increase. As an important part of industrial automation, robots have a particularly strong demand for sensors.

Popularization of consumer electronics: With the popularization of consumer electronics such as smartphones and wearable devices, the demand for sensors for these products is also increasing, which indirectly promotes the development of the robot sensor market.

The rise of emerging industries: With the rapid development of emerging industries such as smart driving and smart homes, the demand for sensors is also growing rapidly, providing a new growth point for the robot sensor market.

3. Policy support and capital investment

Policy promotion: Governments of various countries have introduced relevant policies to encourage the development of the sensor industry and provide a good policy environment for the robot sensor market.

Capital investment: With the attention of the capital market, more and more funds are pouring into the sensor industry, providing sufficient financial support for the rapid development of the robot sensor market.

4. Expansion of application scenarios

The development of humanoid robots: As an important development direction in the future field of robots, humanoid robots have a particularly prominent demand for sensors. In order to simulate human perception, humanoid robots need to be equipped with a complex sensor system, including internal sensors and external sensors, to provide visual, auditory, tactile, position and other information.

Application of other robots: In addition to humanoid robots, other types of robots such as industrial robots and service robots also have a wide range of application needs for sensors. These robots need to use sensors to perceive the environment, identify objects, control movement, etc., so as to realize various functions.

5. Improvement of the localization rate of sensors

Progress in domestic sensor technology: In recent years, domestic sensor companies have made significant progress in technology research and development and innovation capabilities, and some products have reached the international advanced level.

Driven by market demand: With the rapid development of the domestic robot market, the demand for sensors is also increasing. This provides domestic sensor companies with broad development space and market opportunities.

In summary, the driving factors of the robot sensor market mainly include technological progress and innovation, market demand growth, policy support and capital investment, expansion of application scenarios and increase in the localization rate of sensors. These factors have jointly promoted the rapid development of the robot sensor market.

LP Information, Inc. (LPI) ' newest research report, the "Robot Sensor Industry Forecast" looks at past sales and reviews total world Robot Sensor sales in 2024, providing a comprehensive analysis by region and market sector of projected Robot Sensor sales for 2025 through 2031. With Robot Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Robot Sensor industry.

This Insight Report provides a comprehensive analysis of the global Robot Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Robot Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Robot Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and

quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Robot Sensor.

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

Segmentation by Type:

Movement Sensors

Vision Sensors

Touch Sensors

Voice Sensors

Others

Segmentation by Application:

Automotive

Machinery

Aerospace

Electronics Automotive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Cognex

Baluff

Baumer Group

Ifm Electronic Gmbh

Keyence

Rockwell Automation

Daihen Corporation

Infineon Technologies

ATI Industrial Automation

Sick Ag

Honeywell International Inc.

Datalogic

Texas Instruments

TDK

Sensopart

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robot Sensor market?

What factors are driving Robot Sensor market growth, globally and by region?

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

How do Robot Sensor market opportunities vary by end market size?

How does Robot Sensor break out by Type, by Application?

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