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Global Industrial Robot Sensors Market Growth 2025-2031

https://marketpublishers.com/r/G9E3324BB009EN.html
Date: November 2025
Pages: 148
Price: US$ 3,660.00 (Single User License)
ID: G9E3324BB009EN

Abstracts

The global Industrial Robot Sensors market size is predicted to grow from US$ 3962 million in 2025 to US$ 5618 million in 2031; it is expected to grow at a CAGR of 6.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Industrial robots can generally be divided into four parts.Namely mechanical part, control part.The sensory part and the recognition part. The sensory part means that the robot USES sensors to absorb information from the outside world and transmit it to the recognition part. The recognition part feeds back the recognized information to the control part, and then feeds back to the sensitive part for operation control.Sensors play an important role in the construction of robots and are the key to the performance of robots.Robot sensors are different from industrial sensors which are widely used. They have higher requirements on the types of sensor information and intelligent processing.Both research and industrialization.All need to have a variety of subjects specialized technology and advanced craft equipment as a support.Robot sensors mainly include robot visual sense, tactile sense, proximity sense, distance sense, posture sense, position sense and other sensors.- the use and development of aspect sensors improve the level of robots and promote the deepening of robot technology;On the other hand, because of many difficulties in sensing technology, the development of robot is restrained and affected.To what extent the intelligent robot can develop in the future, the sensor will be one of the important keys.Therefore, only the development of high performance sensors can make the robot have good intelligent interface function.

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The visual sensing system can be based on anything from the traditional camera, sonar, and laser to the new technology radio frequency identification (RFID), which transmits radio signals to a tag on an object that emits back an identification code. Touch sensory signals can be generated by the robot's own movements. It is important to identify only the external tactile signals for accurate operations. Previous solutions employed the Wiener filter, which relies on the prior knowledge of signal statistics that are assumed to be stationary. Recent solution applies an adaptive filter to the robot’s logic. It enables the robot to predict the resulting sensor signals of its internal motions, screening these false signals out. Accurate audio sensors require low internal noise contribution. Traditionally, audio sensors combine acoustical arrays and microphones to reduce internal noise level. Recent solutions combine also piezoelectric devices. A velocity or speed sensor measures consecutive position measurements at known intervals and computes the time rate of change in the position values.

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

This Insight Report provides a comprehensive analysis of the global Industrial Robot Sensors 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 Industrial Robot Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Industrial Robot Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial Robot Sensors 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 Industrial Robot Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial Robot Sensors market by product type, application, key

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manufacturers and key regions and countries.

Segmentation by Type:

Vision Sensors

Force Torque Sensors

Temperature Sensors

Pressure Sensors

Position Sensors

Others

Segmentation by Application:

Agriculture

Automotive

Healthcare

Military

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

ATI Industrial Automation

Fanuc

FUTEK Advanced Sensor Technology

Honeywell International

ams AG

Cognex

OTC Daihen

Hermary Opto Electronics

Inilabs

MaxBotix

Perception Robotics

Roboception

EPSON

Tekscan

Omron

TE Connectivity (TE)

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Basler

ISRA VISION

NXP Semiconductors

Freescale Semiconductor

STMicroelectronics NV

Texas Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Industrial Robot Sensors market?
What factors are driving Industrial Robot Sensors market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Industrial Robot Sensors market opportunities vary by end market size?
How does Industrial Robot Sensors break out by Type, by Application?

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