

Global Intelligent Sensors Market Set For 14.3% Growth, Reaching \$121.39 Billion By 2029

*The Business Research Company's
Intelligent Sensors Global Market Report
2025 – Market Size, Trends, And Global
Forecast 2025-2034*

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Intelligent Sensors Global Market Report 2025

The [intelligent sensors market](#) size has experienced rapid and notable growth in recent years. The market grew from \$62.08 billion in 2024 to an astounding \$71.19 billion in 2025 representing

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a compound annual growth rate CAGR of 14.7%. This significant growth in the historic period can be attributed to various market drivers such as the increasing adoption of Internet of Things IoT devices, soaring demand for smart consumer electronics, and the escalating demand for smart city solutions. Other factors contributing to this growth include a heightened focus on energy efficiency and an increasing integration of these sensors in automotive safety systems.

How High Can the Intelligent Sensors Market Size Reach in

Future Years?

The intelligent sensors market size is slated to see even more growth in the forthcoming years, with projections indicating that it will rise to an impressive \$121.39 billion in 2029. This growth represents a compound annual growth rate CAGR of 14.3%. The growth in this forecast period can be credited to exciting advancements in artificial intelligence AI and machine learning, increasing use in wearable health devices, and a significant rise in automation across various industries. Other contributing factors include expanding applications in industrial robotics and a surge in investment in autonomous vehicles. There are certain trends to watch out for in the

forecast period such as advancement in sensor miniaturization, advanced data analytics integration, innovation in wireless sensor networks, significant advancements in self-diagnostic capabilities, and increased adoption of advanced edge computing. These substantial trends paint a promising picture for the market's future growth.

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What Key Factors Are Driving The Growth Of The Intelligent Sensors Market?

The growth of the intelligent sensors market going forward will be significantly propelled by the increasing demand for automation. Automation, in essence, refers to employing technology to tasks or operations that require minimal human involvement. The rising demand for automation can be attributed to an increasing need for operational efficiency as businesses seek to reduce costs and boost productivity by minimizing manual labor and errors. Intelligent sensors play a crucial role in automation, enabling real-time data collection and decision-making. These sensors allow automation systems to respond accurately and autonomously to changing conditions without need for human interference. According to a report published by the International Federation of Robotics, a Germany-based international association, 4.28 million robots were operating in factories globally in 2024, a 10% increase, with over 500,000 units installed annually for the third year. This growing need for automation will serve to drive the growth of the intelligent sensors market.

Who Are The Key Industry Players in the Intelligent Sensors Market?

Major companies operating in the intelligent sensors market include players such as Qualcomm Incorporated, Honeywell International Inc., ABB Ltd, Eaton Corporation plc, Texas Instruments Incorporated, TDK Corporation, STMicroelectronics N.V., Infineon Technologies AG, NXP Semiconductors N.V., Analog Devices Inc., Renesas Electronics Corporation, Rockwell Automation Inc., Omron Corporation, Vishay Intertechnology Inc., Sick AG, ifm electronic gmbh, Balluff GmbH, Sensirion AG, CEVA Inc., Bosch Sensortec GmbH.

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What Major Advancements Are Emerging in the Intelligent Sensors Market?

Major companies operating in the intelligent sensors market are concentrating on the development of technologically advanced products such as digital temperature and humidity sensors. These sensors enhance accuracy, efficiency, and real-time monitoring across a range of applications. For instance, in November 2022, Scio Sense, a Netherlands-based environmental and flow sensor technology company, launched the unique ENS21x family of high-performance digital temperature and humidity sensors. These are ideal for automotive HVAC, smart buildings, and industrial IoT. With features such as ultra-fast response and long-term stability, these sensors enable reliable real-time health, logistics, and automation monitoring.

How is the [Intelligent Sensors Market Segmented](#)?

The intelligent sensors market included in this report is segmented in the following ways:

- 1 By Type: Humidity, Pressure, Motion, Other Types
- 2 By Technology: Micro-Electro-Mechanical Systems MEMS, Complementary Metal-Oxide-Semiconductor CMOS, Other Technologies
- 3 By Application: Aerospace And Defense, Automotive, Other Applications

Furthermore, these segments are broken down into subsegments as follows:

- 1 By Humidity: Capacitive Humidity Sensors, Resistive Humidity Sensors, Thermal Conductivity Humidity Sensors
- 2 By Pressure: Absolute Pressure Sensors, Gauge Pressure Sensors, Differential Pressure Sensors, Sealed Pressure Sensors
- 3 By Motion: Accelerometers, Gyroscopes, Magnetometers, Inertial Measurement Units IMUs
- 4 By Other Types: Temperature Sensors, Proximity Sensors, Image Sensors, Touch Sensors, Gas Sensors, Flow Sensors

Which Regions Are Influencing The Intelligent Sensors Market Size?

Regional Insights indicate that North America was the largest region in the intelligent sensors market in 2024. Meanwhile, the fastest-growing region in the forecast period is expected to be Asia-Pacific. The report covers several regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

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