

India Sensors Market By Type (Radar Sensor, Optical Sensor, Biosensor, Touch Sensor, Image Sensor, Pressure Sensor, Temperature Sensor, Proximity & Displacement Sensor, Level Sensor, Motion & Position Sensor, Humidity Sensor, Accelerometer & Speed Sensor, and Others), By Technology (CMOS, MEMS, NEMS, and Others), By End User Industry (Electronics, IT & Telecom, Automotive, Industrial, Aerospace & Defense, Healthcare, and Others), By Region, Competition Forecast and Opportunities, 2029

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Abstracts

The India Sensors market is anticipated to grow rapidly in the forecast period.

Due to increasing automotive sales and technological developments in consumer electronics, it is anticipated that the India sensors market experience significant growth during the forecast period. The market for sensors is also expanding because of rising automation demand and the popularity of products like tablets, PCs, smartphones, and smart watches. Sensing technology is evolving with process automation advances, resulting in more capable and better-networked sensing devices and has a wide range of industries. As the digitalization transition accelerates, the need for greater process automation, improved abnormality detection, and predictive maintenance capabilities is driving unprecedented adoption of sensing technology.

A sensor is a device with the ability to recognize changes in its immediate environment

and to output them as analogue or digital signals. These signals can either be displayed or used by a closed loop system to control a process. As, their output is so small, sensors are typically connected to transmitters so that the output can be conditioned or amplified.

In the world affected by COVID, technology is essential for societies to respond, recover, and thrive. Focus on the Internet of Things (IoT) is increasing because of the growing necessity of gathering real-time data and acting on the insights, both in terms of its broader applicability and the path to achieving scale. This rise is being driven by the decreasing cost of computing power, advancements in efficient algorithm designs, advances in machine learning, and, most importantly, the rise of low latency, high-range networks. After 5G, networks are more widely adopted throughout the world, these networks will spread even further and fuel the market of sensors in India.

Increase in automation in various verticals across the region

There is a continuous increase in automation across various verticals of India. Several large-scale and small-scale industries have made automation a key component for cost-cutting and production-efficiency strategies. The use of Sensors is growing as more and more businesses are shifting toward automation. Sensors are used in various industries, such as Electronics, IT & Telecom, Automotive, Industrial, Aerospace & Defense, Healthcare, and Others. Sensor's adoption is increasing due to the rapidly changing human-machine interface (HMI), which is made possible by introducing touch screens, larger screens, higher resolution, remote monitoring capabilities using advanced processors, and IIOT which increases the demand for the sensors in the smart products.

High requirement for skilled workforce

In the past ten years, hiring workers for specialized positions in their factories has become more challenging for manufacturers. Automation makes things more difficult because it necessitates programming and operating knowledge for the robots. This increases the opportunities for existing employees to receive training and broaden their skill set. An automation company can help with the initial installation and configuration. With the proper training and experience, employees can learn new skills and adapt to managing robots. As a result, the demand for a highly skilled workforce and team may hinder the expansion of the Sensors market.

Market Segmentation

The India Sensors market is divided based on Type, Technology, and Industry. Based on Type, the market is divided into Radar Sensor, Optical Sensor, Biosensor, Touch Sensor, Image Sensor, Pressure Sensor, Temperature Sensor, Proximity & Displacement Sensor, Level Sensor, Motion & Position Sensor, Humidity Sensor, Accelerometer & Speed Sensor, and Others. By Technology, the market is divided into CMOS, MEMS, NEMS, and Others. By Industry, the market is divided into Electronics, IT & Telecom, Automotive, Industrial, Aerospace & Defence, Healthcare, and Others.

The demand for automation in manufacturing is fueling the market for Sensors and exhibiting a rapid growth of compound annual growth rate (CAGR) during the forecast period.

Market Players

Some of the leading players in India Sensors Market are, STMicroelectronics Private Limited, 3M India Limited, Texas Instruments (India) Private Limited, Freescale Semiconductor India Private Limited, Murata Electronics (India) Private Limited, Honeywell Automation India Private Limited, TE Connectivity India Private Limited, Alps Electric (India) Private Limited, Semtech Advanced Systems India Private Limited, Cognex Sensors India Private Limited, and many more.

Key developments and initiatives by government and companies

An agreement has been signed by Uno Minda, a top tier-1 supplier of proprietary automotive solutions and systems to original equipment manufacturers, and Asentec of Korea, a major global supplier of automotive sensors and actuators, to design, develop, produce, and market wheel speed sensors (WSS) in India.

GalaxEye to develop satellites with synthetic aperture radar (SAR) and optical sensors with Antaris.

Report Scope:

In this report, the India Sensors market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

India Sensors Market, By Type:

Radar Sensor

Optical Sensor

Biosensor

Touch Sensor

Image Sensor

Pressure Sensor

Temperature Sensor

Proximity & Displacement Sensor

Level Sensor

Motion & Position Sensor

Humidity Sensor

Accelerometer & Speed Sensor

Others

India Sensors Market, By Technology:

CMOS

MEMS

NEMS

Others

India Sensors Market, By Industry:

Electronics

IT & Telecom

Automotive

Industrial

Aerospace & Defense

Healthcare

Others

India Sensors Market, By Region:

East India

West India

North India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Sensors market.

Available Customizations:

India Sensors market report with the given market data, Tech Sci Research, offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to ten).

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