



Motion Sensor Market (By Types - MEMS Magnetometer, MEMS Accelerometer, MEMS Gyroscope and Sensor Combos By Technology Types - Microwave Sensor, Infrared Motion Sensor, Tomographic Sensor, Ultrasonic Sensor and Others By Application Type - Industrial Application, Consumer electronics, Automotive Application, Fitness and Wellness, Healthcare, Aerospace and Defense and Others) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2015 - 2023

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Report Description

Motion sensor is a device that senses motion of any non-living or living objects within its range. Motion sensors are a vital component in smart floodlights, energy efficiency, automated lighting control, home control and security systems among others. These devices save energy, time and are easy to install. Motion sensor is not only used in infotainment and business applications but also in routine activities in homes and other settings

Increasing application of motion sensors in smartphones is primarily driving the growth of global motion sensor market. Additionally growing demand for these sensors in the gaming and entertainment industry is propelling the growth of this market. People are playing motion-controlled game systems, which use sensors to detect activities. Increasing application of motion sensors in automotive industry has led to the increase in competitiveness in the market. Motion sensors are used in several automobile applications which range from Advanced Driver Assistance System (ADAS), airbag deployment system and security among others. At present, many luxury vehicles are coming up with large number of motion sensor products. In addition to this, rapid expansion of the automotive industry in the APAC region is set to bolster the global motion sensor market.

Motion sensor is largely being used in tablets and smartphones, and also in the healthcare industry. There is a growing demand for high-end MEMS accelerometers in industrial and defense applications such as structural health monitoring for bridges, inertial measurement units for navigation and oil exploration.

Based on types, the motion sensor market is segmented into MEMS magnetometer, MEMS accelerometer, MEMS gyroscope, ultrasonic sensor and sensor combos. MEMS accelerometers occupied the highest market in 2014 followed by MEMS gyroscopes. MEMS accelerometer motion sensor is an electromechanical device used to

verify acceleration forces. Gyroscope motion sensors are commonly used in robotic applications to determine the balancing and send corrections to drones or motors to stable the flight.

Based on the technology types, the global market is segmented into infrared sensor, microwave sensor, tomographic sensor, ultrasonic sensor and others. The infrared sensor segment dominates the motion sensor market followed by microwave sensor. Microwave motion sensors sense the intruder's motion into a specific portion and triggers alarm as a result. Microwave motion sensors emit microwaves into the specific region and detect any interruption by analyzing the frequency of the received microwaves after the reflection from the intruder. Infrared sensors are further segmented into passive infrared and active infrared. The active infrared segment dominated the motion sensors market globally in 2014.

By applications, the global market is segmented into industrial application, consumer electronics, automotive application, fitness and wellness, health care, aerospace and defense and others. Industrial application market is sub segmented into lighting controls, service robotics and fire alarms and smoke detectors. Consumer electronics market is further segmented into gaming and entertainment, wearable devices, smartphones and tablets and others. Automotive applications market is sub segmented into advanced driver assistance system, airbag deployment system, security and others. Motion Sensor market is dominated by the consumer electronics, followed by industrial application. Increasing demand for motion sensors in smartphones and microwaves is leading to the growing demand of motion sensors. Consumer electronics market is dominated by smartphones and tablets, followed by gaming and entertainment. Rising gaming applications are anticipated to speed up demand for motion sensors, which will further contribute to the revenue globally. Increasing demand for motion sensors in wearable devices is expected boost the demand of the market during the forecast period of 2015 – 2021.

The motion sensor market by region has been segmented into North America, Europe, Asia Pacific (APAC) and Rest of the World (RoW). In 2014, Europe held the major share of the market, followed by North America, Asia Pacific and Rest of the World (RoW). Consumer electronics dominates the motion sensor market in Europe. Increasing demand for motion sensors in smartphone and microwaves are leading to the growing demand of motion sensors.

Key players profiled in this report include Robert Bosch GmbH (Germany), Honeywell International, Inc.(U.S.), Microchip Technology, Inc.(United States), Murata Manufacturing Co. Ltd.(Japan), Invensense Inc.(United States), Memsic Inc.(United States), Kionix Inc.(U.S.), Analog Devices, Inc.(U.S.), NXP Semiconductors N.V.(The Netherlands) and ST Microelectronics(Switzerland) among others.

The segments covered in the Motion Sensor market are as follows:

Global Motion Sensor Market: By Type

- MEMS (Micro Electro Mechanical Systems) Magnetometer
- MEMS (Micro Electro Mechanical Systems) Accelerometer
- MEMS (Micro Electro Mechanical Systems) Gyroscope
- Ultrasonic Sensor
- Sensor Combos

Global Motion Sensor Market: By Technology Type

- Microwave Sensor
- Infrared Motion Sensor
- Passive Infrared
- Active Infrared
- Tomographic Sensor
- Ultrasonic Sensor
- Others

Global Motion Sensor Market: By Application Type

- Industrial Application
- Lighting Controls (Outdoor/Indoor)
- Service Robotics
- Fire Alarms & Smoke Detectors
- Consumer Electronics
- Gaming & Entertainment
- Wearable Devices
- Smart phones & Tablets
- Others
- Automotive Application
- Advanced Driver Assistance System (ADAS)
- Airbag Deployment System

- Security
- Others
- Fitness and Wellness
- Healthcare
- Aerospace and Defense
- Others

Global Motion Sensor Market: By Geography

- North America
- U.S.
- Canada
- Mexico
- Europe
- U.K.
- Germany
- France
- Italy
- Rest of Europe
- Asia Pacific
- India
- China
- Japan
- Rest of Asia Pacific
- Rest of the World (RoW)
- Middle East
- Latin America
- Africa

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FIG.48 Murata Manufacturing Co., Ltd. Annual Revenue 2012– 2014, (USD Million)

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