



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

Table Of Content

Notes:

Chapter 1 Preface

1.1 Report Description

- 1.2 Market Segmentation
- 1.3 Key Take Away
- 1.4 Research Methodology

Chapter 2 Executive Summary

- 2.2 Global Motion Sensor Market Snapshot

Chapter 3 Market Overview

- 3.1 Introduction
- 3.2 Key Trend Analysis
- 3.3 Market Dynamics
 - 3.3.1 Market Drivers
 - 3.3.1.1 Increasing use of motion sensors in gaming Industry
 - 3.3.1.2 Increasing application of motion sensors in smartphones
 - 3.3.1.3 Increasing application of motion sensors in automotive industry
 - 3.3.2 Market Restraints
 - 3.3.2 Constraints of Infrared Motion Sensors
 - 3.3.2 Substitutes of Motion Sensors
 - 3.3.3 Market Opportunities
- 3.4 Motion Sensor: Market attractiveness analysis
 - 3.4.1 Recommendations
- 3.5 Competitive Landscape
 - 3.5.1 Competitive Strategies Adopted, By Major Player

Chapter 4 Global Motion Sensor Market Analysis, by Type

- 4.1 Overview
- 4.2 Infrared Sensor Market , Revenue Forecast (USD million), 2014 – 2023
 - 4.2.1 Motion Sensor Market: By Infrared Sensor (USD million), 2014 – 2023
- 4.3 Microwave Sensor Market , Revenue Forecast (USD million), 2014 – 2023
- 4.4 Tomographic Sensor Market , Revenue Forecast (USD million), 2014 – 2023
- 4.5 Ultrasonic Sensor Market, Revenue Forecast(USD million), 2014 – 2023
- 4.6 Others Sensor Market , Revenue Forecast (USD million), 2014 – 2023

Chapter 5 Global Motion Sensor Market: By Technology Type

5.1 Overview

5.2 MEMS Magnetometer Market , Revenue Forecast (USD million), 2014 – 2023

5.3 MEMS Accelerometer Market, Revenue Forecast (USD million), 2014 – 2023

5.4 MEMS Gyroscope Market, Revenue Forecast (USD million), 2014 – 2023

5.5 MEMS Gyroscope Market, Revenue Forecast (USD million), 2014 – 2023

5.6 MEMS Gyroscope Market, Revenue Forecast (USD million), 2014 – 2023

Chapter 6 Global Motion Sensor Market: By Application Type

6.1 Overview

6.1.1 By applications: Revenue Share, 2014 Vs 2023

6.2 Industrial Application, Revenue Forecast (USD million), 2014 – 2023

6.3 Consumer Electronics Application, Revenue Forecast (USD million), 2014 – 2023

6.4 Automotive Application, Revenue Forecast (USD million), 2014 – 2023

6.5 Fitness and Wellness Market, Revenue Forecast, 2014 – 2023, (USD million)

6.6 Healthcare Application, Revenue Forecast (USD million), 2014 – 2023

6.7 Aerospace and Defense Application, Revenue Forecast (USD million), 2014 - 2023

6.8 Others Application, Revenue Forecast (USD million), 2014 – 2023

Chapter 7 Global Motion Sensor Market –By Region

7.1 Global Motion Sensor Market: Regional overview

7.1.1 By Region: Revenue share, 2014 – 2023

7.2 North America Motion Sensor market, 2014 – 2023, (USD Million)

7.2.1 North America Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.2.2 North America Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.2.3 North America Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.2.4 North America Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.2.5 North America Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.2.6 North America Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)

7.2.7 North America Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

7.2.8 U.S. Motion Sensor market, 2014 – 2023, (USD Million)

7.2.8.1 U.S. Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

- 7.2.8.2 U.S. Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.2.8.3 U.S. Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.2.8.4 U.S. Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.2.8.5 U.S. Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.2.8.6 U.S. Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.2.8.7 U.S. Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.2.9 Canada Motion Sensor market, 2014 – 2023, (USD Million)
- 7.2.9.1 Canada Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.2.9.2 Canada Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.2.9.3 Canada Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.2.9.4 Canada Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.2.9.5 Canada Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.2.9.6 Canada Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.2.9.7 Canada Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.2.10 Mexico Motion Sensor market, 2014 – 2023, (USD Million)
- 7.2.10.1 Mexico Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.2.10.2 Mexico Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.2.10.3 Mexico Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.2.10.4 Mexico Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.2.10.5 Mexico Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.2.10.6 Mexico Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.2.10.7 Mexico Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.3 Europe Motion Sensor market, 2014 – 2023, (USD Million)
- 7.3.1 Europe Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.3.2 Europe Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.3.3 Europe Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.3.4 Europe Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.3.5 Europe Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.3.6 Europe Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)

7.3.7 Europe Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

7.3.8 U.K. Motion Sensor market, 2014 – 2023, (USD Million)

7.3.8.1 U.K. Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.3.8.2 U.K. Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.3.8.3 U.K. Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.3.8.4 U.K. Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.3.8.5 U.K. Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.3.8.6 U.K. Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)

7.3.8.7 U.K. Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

7.3.9 Italy Motion Sensor market, 2014 – 2023, (USD Million)

7.3.9.1 Italy Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.3.9.2 Italy Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.3.9.3 Italy Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.3.9.4 Italy Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.3.9.5 Italy Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.3.9.6 Italy Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)

7.3.9.7 Italy Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

7.3.10 France Motion Sensor market, 2014 – 2023, (USD Million)

7.3.10.1 France Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.3.10.2 France Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.3.10.3 France Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

- 7.3.10.4 France Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.3.10.5 France Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.3.10.6 France Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.3.10.7 France Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.3.11 Germany Motion Sensor market, 2014 – 2023, (USD Million)
- 7.3.11.1 Germany Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.3.11.2 Germany Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.3.11.3 Germany Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.3.11.4 Germany Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.3.11.5 Germany Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.3.11.6 Germany Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.3.11.7 Germany Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.3.12 Rest of Europe Motion Sensor market, 2014 – 2023, (USD Million)
- 7.3.12.1 Rest of Europe Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)
- 7.3.12.2 Rest of Europe Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.3.12.3 Rest of Europe Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.3.12.4 Rest of Europe Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.3.12.5 Rest of Europe Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.3.12.6 Rest of Europe Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.3.12.7 Rest of Europe Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.3.12.8 Rest of Europe Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.4 Asia Pacific Motion Sensor market, 2014 – 2023, (USD Million)
- 7.4.1 Asia Pacific Motion Sensor Market, Revenue Forecast, 2014 – 2023 (USD million)
- 7.4.2 Asia Pacific Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

- 7.4.3 Asia Pacific Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.4.4 Asia Pacific Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.4.5 Asia Pacific Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.4.6 Asia Pacific Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.4.7 Asia Pacific Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.4.8 Asia Pacific Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.4.9 China Motion Sensor market, 2014 – 2023, (USD Million)
 - 7.4.9.1 China Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)
 - 7.4.9.2 China Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
 - 7.4.9.3 China Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
 - 7.4.9.4 China Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
 - 7.4.9.5 China Motion Sensor Market, by Application 2014 – 2023, (USD Million)
 - 7.4.9.6 China Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
 - 7.4.9.7 China Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
 - 7.4.9.8 China Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.4.10 India Motion Sensor market, 2014 – 2023, (USD Million)
 - 7.4.10.1 India Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)
 - 7.4.10.2 India Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
 - 7.4.10.3 India Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
 - 7.4.10.4 India Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
 - 7.4.10.5 India Motion Sensor Market, by Application 2014 – 2023, (USD Million)
 - 7.4.10.6 India Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
 - 7.4.10.7 India Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
 - 7.4.10.8 India Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.4.11 Japan Motion Sensor market, 2014 – 2023, (USD Million)

- 7.4.11.1 Japan Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)
- 7.4.11.2 Japan Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.4.11.3 Japan Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.4.11.4 Japan Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.4.11.5 Japan Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.4.11.6 Japan Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.4.11.7 Japan Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.4.11.8 Japan Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.4.12 Rest of Asia Pacific Motion Sensor market, 2014 – 2023, (USD Million)
- 7.4.12.1 Rest of Asia Pacific Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)
- 7.4.12.2 Rest of Asia Pacific Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.4.12.3 Rest of Asia Pacific Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.4.12.4 Rest of Asia Pacific Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.4.12.5 Rest of Asia Pacific Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.4.12.6 Rest of Asia Pacific Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.4.12.7 Rest of Asia Pacific Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.4.12.8 Rest of Asia Pacific Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)
- 7.5 RoW Motion Sensor market, 2014 – 2023, (USD Million)
- 7.5.1 RoW Motion Sensor Market, Revenue Forecast, 2014 – 2023
(USD million)
- 7.5.2 RoW Motion Sensor Market, By Type, 2014 – 2023, (USD Million)
- 7.5.3 RoW Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)
- 7.5.4 RoW Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)
- 7.5.5 RoW Motion Sensor Market, by Application 2014 – 2023, (USD Million)
- 7.5.6 RoW Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)
- 7.5.7 RoW Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)
- 7.5.8 RoW Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD

million)

7.5.8 Latin America Motion Sensor market, 2014 – 2023, (USD Million)

7.5.8.1 Latin America Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)

7.5.8.2 Latin America Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.5.8.3 Latin America Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.5.8.4 Latin America Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.5.8.5 Latin America Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.5.8.6 Latin America Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.5.8.7 Latin America Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)

7.5.8.8 Latin America Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

7.5.9 Middle East Motion Sensor market, 2014 – 2023, (USD Million)

7.5.9.1 Middle East Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)

7.5.9.2 Middle East Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.5.9.3 Middle East Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.5.9.4 Middle East Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.5.9.5 Middle East Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.5.9.6 Middle East Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.5.9.7 Middle East Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD million)

7.5.9.8 Middle East Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

7.5.9 Africa Motion Sensor market, 2014 – 2023, (USD Million)

7.5.9.1 Africa Motion Sensor Market, Revenue Forecast, 2014 – 2023(USD million)

7.5.9.2 Africa Motion Sensor Market, By Type, 2014 – 2023, (USD Million)

7.5.9.3 Africa Motion Sensor Market, by Infrared Type, 2014 – 2023, (USD Million)

7.5.9.4 Africa Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

7.5.9.5 Africa Motion Sensor Market, by Application 2014 – 2023, (USD Million)

7.5.9.6 Africa Motion Sensor Market, Revenue Forecast, By Industrial Application Types, 2014 – 2023, (USD million)

7.5.9.7 Africa Motion Sensor Market, Revenue Forecast, By Consumer Electronics Types, 2014 – 2023, (USD

million)

7.5.9.8 Africa Motion Sensor Market, Revenue Forecast, By Automotive Application Types, 2014 – 2023, (USD million)

Chapter 8 Company Profiles

8.1 NXP Semiconductors N.V.

8.2 Honeywell International Inc.

8.3 Analog Devices, Inc.

8.4 STMicroelectronics N.V.

8.5 MEMSIC Inc.

8.6 Robert Bosch GmbH

8.7 InvenSense Inc.

8.8 Microchip Technology, Inc.

8.9 Murata Manufacturing Co., Ltd.

8.10 Kionix Inc.

TABLE 1 Snapshot: Global Motion Sensor Market

TABLE 2 Motion Sensor Market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 3 Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 4 Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 5 Motion Sensor Market, by Automotive Application, 2014 – 2023, (USD Million)

TABLE 6 North America Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 7 North America Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 8 North America Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 9 North America Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 10 North America Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 11 North America Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 12 North America Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 13 U.S. Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 14 U.S. Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 15 U.S. Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 16 U.S. Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 17 U.S. Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 18 U.S. Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 19 U.S. Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 20 Canada Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 21 Canada Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 22 Canada Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 23 Canada Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 24 Canada Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 25 Canada Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 26 Canada Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 27 Mexico Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 28 Mexico Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 29 Mexico Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 30 Mexico Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 31 Mexico Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 32 Mexico Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 33 Mexico Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 34 Europe Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 35 Europe Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 36 Europe Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 37 Europe Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 38 Europe Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 39 Europe Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 40 Europe Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 41 U.K. Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 42 U.K. Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 43 U.K. Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 44 U.K. Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 45 U.K. Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 46 U.K. Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 47 U.K. Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 48 Italy Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 49 Italy Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 50 Italy Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 51 Italy Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 52 Italy Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 53 Italy Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 54 Italy Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 55 France Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 56 France Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 57 France Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 58 France Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 59 France Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 60 France Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 61 France Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 62 Germany Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 63 Germany Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 64 Germany Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 65 Germany Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 66 Germany Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 67 Germany Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 68 Germany Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 69 Rest of Europe Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 70 Rest of Europe Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 71 Rest of Europe Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 72 Rest of Europe Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 73 Rest of Europe Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 74 Rest of Europe Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 75 Rest of Europe Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 76 Asia Pacific Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 77 Asia Pacific Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 78 Asia Pacific Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 79 Asia Pacific Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 80 Asia Pacific Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 81 Asia Pacific Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 82 Asia Pacific Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 83 China Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 84 China Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 85 China Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 86 China Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 87 China Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 88 China Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 89 China Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 90 India Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 91 India Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 92 India Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 93 India Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 94 India Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 95 India Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 96 India Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 97 Japan Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 98 Japan Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 99 Japan Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 100 Japan Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 101 Japan Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 102 Japan Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 103 Japan Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 104 Rest of Asia Pacific Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 105 Rest of Asia Pacific Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 106 Rest of Asia Pacific Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 107 Rest of Asia Pacific Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 108 Rest of Asia Pacific Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 109 Rest of Asia Pacific Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 110 Rest of Asia Pacific Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 111 RoW Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 112 RoW Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 113 RoW Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 114 RoW Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 115 RoW Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 116 RoW Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 117 RoW Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 118 Latin America Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 119 Latin America Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 120 Latin America Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 121 Latin America Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 122 Latin America Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 123 Latin America Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 124 Latin America Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 125 Middle East Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 126 Middle East Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 127 Middle East Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 128 Middle East Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 129 Middle East Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 130 Middle East Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 131 Middle East Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

TABLE 132 Africa Motion Sensor market, by Type, 2014 – 2023, (USD Million)

TABLE 133 Africa Motion Sensor market, by Infrared Sensor, 2014 – 2023, (USD Million)

TABLE 134 Africa Motion Sensor Market, by Technology Type, 2014 – 2023, (USD Million)

TABLE 135 Africa Motion Sensor Market, by Application Type, 2014 – 2023, (USD Million)

TABLE 136 Africa Motion Sensor Market, by Industrial Application, 2014 – 2023, (USD Million)

TABLE 137 Africa Motion Sensor Market, by Consumer Electronics, 2014 – 2023, (USD Million)

TABLE 138 Africa Motion Sensor Market, by Automotive Application Type, 2014 – 2023, (USD Million)

FIG.1 Market Positioning of Key Players

FIG.2 Market Attractiveness Analysis, by Technology Type

FIG.3 Global Infrared Motion Sensors Market, 2014 – 2023, (USD Million)

FIG.4 Global Microwave Motion Sensors Market, 2014 – 2023, (USD Million)

FIG.5 Global Tomographic Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.6 Global Ultrasonic Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.7 Global Others Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.8 Global MEMS Magnetometer Market, 2014 – 2023

FIG.9 Global MEMS Accelerometer Market, 2014 – 2023, (USD Million)

FIG.10 Global MEMS Gyroscope Market, 2014 – 2023, (USD Million)

FIG.11 Global Ultrasonic Sensor Market, 2014 – 2023, (USD Million)

FIG.12 Global Sensor Combos Market, 2014 – 2023, (USD Million)

FIG.13 Global Motion Sensor Market Revenue Share, by Application, 2014 – 2023 (%)

FIG.14 Global Industrial Application Market, 2014 – 2023, (USD Million)

FIG.15 Global Consumer Electronics Application Market, 2014 – 2023, (USD Million)

FIG.16 Global Automotive Application Market, 2014 – 2023, (USD Million)

FIG.17 Global Fitness and Wellness Market, 2014 – 2023, (USD Million)

FIG.18 Global Healthcare Market, 2014 – 2023, (USD Million)

FIG.19 Global Aerospace and Defense Market, 2014 – 2023, (USD Million)

FIG.20 Global Others Market, 2014 – 2023, (USD Million)

FIG.21 Global Motion Sensor Market Revenue Share, by Region, 2014 – 2023 (%)

FIG.22 North America Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.23 U.S. Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.24 Canada Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.25 Mexico Motion Sensor Market , 2014 – 2023, (USD Million)

FIG.26 Europe Motion Sensor Market , 2014 – 2023, (USD Million)

FIG.27 U.K. Motion Sensor Market , 2014 – 2023, (USD Million)

FIG.28 Italy Motion Sensor Market , 2014 – 2023, (USD Million)

FIG.29 France Motion Sensor Market , 2014 – 2023, (USD Million)

FIG.30 Germany Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.31 Rest of Europe Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.32 Asia Pacific Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.33 China Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.34 India Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.35 Japan Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.36 Rest of Asia Pacific Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.37 RoW Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.38 Latin America Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.39 Middle East Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.40 Africa Motion Sensor Market, 2014 – 2023, (USD Million)

FIG.41 NXP Semiconductors N.V. Annual Revenue 2012 – 2014, (USD Million)

FIG.42 Honeywell International, Inc. Annual Revenue, 2012 – 2014 (USD Million)

FIG.43 Analog Devices, Inc. Annual Revenue 2012 – 2014, (USD Million)

FIG.44 STMicroelectronics N.V.. Annual Revenue 2012– 2014, (USD Million)

FIG.45 Robert Bosch GmbH Annual Revenue 2012– 2014, (USD Million)

FIG.46 InvenSense Inc. Annual Revenue 2012– 2014, (USD Million)

FIG.47 Microchip Technology, Inc. Annual Revenue 2012– 2014, (USD Million)

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

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