

Global Motion Sensor Market Report and Forecast 2023-2028

Market Report | 2023-10-25 | 155 pages | EMR Inc.

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Report description:

Global Motion Sensor Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global motion sensor market is projected to grow at a CAGR of 7.6% between 2023 and 2028. Aided by the expanding realms of automation, advanced security systems, and the burgeoning smart device industry, the market is expected to reach a value of USD 9.15 billion by 2028.

Motion sensors, often referred to as motion detectors, are integral components that detect and track movements, primarily of humans, within a designated vicinity. They play a pivotal role in diverse applications such as home security systems, mobile phones, game consoles, and industrial machinery. Their capability to save energy, coupled with providing convenience and enhanced security, sets them apart as critical technological tools in modern living.

The burgeoning trend of home automation and smart homes is one of the major catalysts driving the global motion sensor market growth. As consumers globally are tilting towards technologically advanced homes that offer convenience, efficiency, and security, the integration of motion sensors in lighting, home appliances, and security devices becomes paramount. These sensors, when implemented, ensure that lights are turned off when no movement is detected, enhancing energy conservation, and provide security by sending alerts during unauthorised movements.

According to the motion sensor market analysis, the uptrend in the adoption of advanced security systems in both residential and commercial sectors further amplifies the demand for motion sensors. With rising urbanisation and the resultant increase in security threats, there is a marked emphasis on fortifying security measures. Motion sensors, particularly in security cameras and alarms, have become an indispensable tool in this protective armor, alerting individuals or security agencies to possible intrusions.

The dynamic world of gaming and entertainment is yet another domain which is boosting the motion sensor market demand. The evolution of virtual reality (VR) and augmented reality (AR) games, where player movements are replicated in the virtual arena, leans heavily on precise motion detection. This immersive experience, fast gaining popularity among gaming aficionados, amplifies the relevance of motion sensors in gaming consoles and VR headsets.

In the industrial landscape, motion sensors play a crucial role in machinery and robotics. Automated assembly lines, reliant on precise motion detection to enhance efficiency and reduce errors, are increasingly adopting motion sensors. These sensors aid in

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ensuring safety by halting machinery when unexpected movement, say of a worker too close to a machine, is detected, thus preventing potential accidents.

Furthermore, the thriving domain of smartphones and wearables sees motion sensors as integral components. Features like screen rotation, play/pause during video playback based on eye movement, or fitness tracking in wearables hinge on the capabilities of motion sensors. As the appetite for smarter and more feature-rich gadgets grows, the integration of motion sensors in these devices becomes even more pronounced.

However, the motion sensor market outlook is not merely confined to the sectors mentioned. The health and fitness industry, with devices tracking exercises, sleep patterns, and more, leans on motion sensors. Similarly, the automotive industry, with innovations like automated parking, also integrates these sensors.

Market Segmentation

The market can be divided based on motion technology, application, and region.

Market Breakup by Motion Technology

- Infrared
- Ultrasonic
- Microwave
- Dual Technology
- Tomographic
- Others

Market Breakup by Application

- Consumer Electronics
- Automotive
- Aerospace and Defence
- Healthcare
- Industrial
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global motion sensor market. Some of the major players explored in the report by Expert Market Research are as follows:

- ST Microelectronics N.V
- Murata Manufacturing Co., Ltd.
- Honeywell International Inc.
- NXP Semiconductors N.V
- Analog Devices Inc.
- Microchip Technology Inc.
- InvenSense, Inc.
- Bosch Sensortec GmbH
- KIONIX, Inc.
- MEMSIC Semiconductor (Tianjin) Co., Ltd.
- Others

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Table of Contents:

- 1 Preface
- 2 Report Coverage - Key Segmentation and Scope
- 3 Report Description
 - 3.1 Market Definition and Outlook
 - 3.2 Properties and Applications
 - 3.3 Market Analysis
 - 3.4 Key Players
- 4 Key Assumptions
- 5 Executive Summary
 - 5.1 Overview
 - 5.2 Key Drivers
 - 5.3 Key Developments
 - 5.4 Competitive Structure
 - 5.5 Key Industrial Trends
- 6 Snapshot
 - 6.1 Global
 - 6.2 Regional
- 7 Opportunities and Challenges in the Market
- 8 Global Motion Sensor Market Analysis
 - 8.1 Key Industry Highlights
 - 8.2 Global Motion Sensor Historical Market (2018-2022)
 - 8.3 Global Motion Sensor Market Forecast (2023-2028)
 - 8.4 Global Motion Sensor Market by Motion Technology
 - 8.4.1 Infrared
 - 8.4.1.1 Market Share
 - 8.4.1.2 Historical Trend (2018-2022)
 - 8.4.1.3 Forecast Trend (2023-2028)
 - 8.4.2 Ultrasonic
 - 8.4.2.1 Market Share
 - 8.4.2.2 Historical Trend (2018-2022)
 - 8.4.2.3 Forecast Trend (2023-2028)
 - 8.4.3 Microwave
 - 8.4.3.1 Market Share
 - 8.4.3.2 Historical Trend (2018-2022)

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- 8.4.3.3 Forecast Trend (2023-2028)
- 8.4.4 Dual Technology
 - 8.4.4.1 Market Share
 - 8.4.4.2 Historical Trend (2018-2022)
 - 8.4.4.3 Forecast Trend (2023-2028)
- 8.4.5 Tomographic
 - 8.4.5.1 Market Share
 - 8.4.5.2 Historical Trend (2018-2022)
 - 8.4.5.3 Forecast Trend (2023-2028)
- 8.4.6 Others
- 8.5 Global Motion Sensor Market by Application
 - 8.5.1 Consumer Electronics
 - 8.5.1.1 Market Share
 - 8.5.1.2 Historical Trend (2018-2022)
 - 8.5.1.3 Forecast Trend (2023-2028)
 - 8.5.2 Automotive
 - 8.5.2.1 Market Share
 - 8.5.2.2 Historical Trend (2018-2022)
 - 8.5.2.3 Forecast Trend (2023-2028)
 - 8.5.3 Aerospace and Defense
 - 8.5.3.1 Market Share
 - 8.5.3.2 Historical Trend (2018-2022)
 - 8.5.3.3 Forecast Trend (2023-2028)
 - 8.5.4 Healthcare
 - 8.5.4.1 Market Share
 - 8.5.4.2 Historical Trend (2018-2022)
 - 8.5.4.3 Forecast Trend (2023-2028)
 - 8.5.5 Industrial
 - 8.5.5.1 Market Share
 - 8.5.5.2 Historical Trend (2018-2022)
 - 8.5.5.3 Forecast Trend (2023-2028)
 - 8.5.6 Others
- 8.6 Global Motion Sensor Market by Region
 - 8.6.1 North America
 - 8.6.1.1 Market Share
 - 8.6.1.2 Historical Trend (2018-2022)
 - 8.6.1.3 Forecast Trend (2023-2028)
 - 8.6.2 Europe
 - 8.6.2.1 Market Share
 - 8.6.2.2 Historical Trend (2018-2022)
 - 8.6.2.3 Forecast Trend (2023-2028)
 - 8.6.3 Asia Pacific
 - 8.6.3.1 Market Share
 - 8.6.3.2 Historical Trend (2018-2022)
 - 8.6.3.3 Forecast Trend (2023-2028)
 - 8.6.4 Latin America
 - 8.6.4.1 Market Share

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- 8.6.4.2 Historical Trend (2018-2022)
 - 8.6.4.3 Forecast Trend (2023-2028)
 - 8.6.5 Middle East and Africa
 - 8.6.5.1 Market Share
 - 8.6.5.2 Historical Trend (2018-2022)
 - 8.6.5.3 Forecast Trend (2023-2028)
- 9 North America Motion Sensor Market Analysis
 - 9.1 United States of America
 - 9.1.1 Market Share
 - 9.1.2 Historical Trend (2018-2022)
 - 9.1.3 Forecast Trend (2023-2028)
 - 9.2 Canada
 - 9.2.1 Market Share
 - 9.2.2 Historical Trend (2018-2022)
 - 9.2.3 Forecast Trend (2023-2028)
- 10 Europe Motion Sensor Market Analysis
 - 10.1 United Kingdom
 - 10.1.1 Market Share
 - 10.1.2 Historical Trend (2018-2022)
 - 10.1.3 Forecast Trend (2023-2028)
 - 10.2 Germany
 - 10.2.1 Market Share
 - 10.2.2 Historical Trend (2018-2022)
 - 10.2.3 Forecast Trend (2023-2028)
 - 10.3 France
 - 10.3.1 Market Share
 - 10.3.2 Historical Trend (2018-2022)
 - 10.3.3 Forecast Trend (2023-2028)
 - 10.4 Italy
 - 10.4.1 Market Share
 - 10.4.2 Historical Trend (2018-2022)
 - 10.4.3 Forecast Trend (2023-2028)
 - 10.5 Others
- 11 Asia Pacific Motion Sensor Market Analysis
 - 11.1 China
 - 11.1.1 Market Share
 - 11.1.2 Historical Trend (2018-2022)
 - 11.1.3 Forecast Trend (2023-2028)
 - 11.2 Japan
 - 11.2.1 Market Share
 - 11.2.2 Historical Trend (2018-2022)
 - 11.2.3 Forecast Trend (2023-2028)
 - 11.3 India
 - 11.3.1 Market Share
 - 11.3.2 Historical Trend (2018-2022)
 - 11.3.3 Forecast Trend (2023-2028)
 - 11.4 ASEAN

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- 11.4.1 Market Share
 - 11.4.2 Historical Trend (2018-2022)
 - 11.4.3 Forecast Trend (2023-2028)
- 11.5 Australia
 - 11.5.1 Market Share
 - 11.5.2 Historical Trend (2018-2022)
 - 11.5.3 Forecast Trend (2023-2028)
- 11.6 Others
- 12 Latin America Motion Sensor Market Analysis
 - 12.1 Brazil
 - 12.1.1 Market Share
 - 12.1.2 Historical Trend (2018-2022)
 - 12.1.3 Forecast Trend (2023-2028)
 - 12.2 Argentina
 - 12.2.1 Market Share
 - 12.2.2 Historical Trend (2018-2022)
 - 12.2.3 Forecast Trend (2023-2028)
 - 12.3 Mexico
 - 12.3.1 Market Share
 - 12.3.2 Historical Trend (2018-2022)
 - 12.3.3 Forecast Trend (2023-2028)
 - 12.4 Others
- 13 Middle East and Africa Motion Sensor Market Analysis
 - 13.1 Saudi Arabia
 - 13.1.1 Market Share
 - 13.1.2 Historical Trend (2018-2022)
 - 13.1.3 Forecast Trend (2023-2028)
 - 13.2 United Arab Emirates
 - 13.2.1 Market Share
 - 13.2.2 Historical Trend (2018-2022)
 - 13.2.3 Forecast Trend (2023-2028)
 - 13.3 Nigeria
 - 13.3.1 Market Share
 - 13.3.2 Historical Trend (2018-2022)
 - 13.3.3 Forecast Trend (2023-2028)
 - 13.4 South Africa
 - 13.4.1 Market Share
 - 13.4.2 Historical Trend (2018-2022)
 - 13.4.3 Forecast Trend (2023-2028)
 - 13.5 Others
- 14 Market Dynamics
 - 14.1 SWOT Analysis
 - 14.1.1 Strengths
 - 14.1.2 Weaknesses
 - 14.1.3 Opportunities
 - 14.1.4 Threats
 - 14.2 Porter's Five Forces Analysis

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- 14.2.1 Supplier's Power
- 14.2.2 Buyer's Power
- 14.2.3 Threat of New Entrants
- 14.2.4 Degree of Rivalry
- 14.2.5 Threat of Substitutes
- 14.3 Key Indicators for Demand
- 14.4 Key Indicators for Price
- 15 Value Chain Analysis
- 16 Competitive Landscape
 - 16.1 Market Structure
 - 16.2 Company Profiles
 - 16.2.1 ST Microelectronics N.V.
 - 16.2.1.1 Company Overview
 - 16.2.1.2 Product Portfolio
 - 16.2.1.3 Demographic Reach and Achievements
 - 16.2.1.4 Certifications
 - 16.2.2 Murata Manufacturing Co., Ltd.
 - 16.2.2.1 Company Overview
 - 16.2.2.2 Product Portfolio
 - 16.2.2.3 Demographic Reach and Achievements
 - 16.2.2.4 Certifications
 - 16.2.3 Honeywell International Inc.
 - 16.2.3.1 Company Overview
 - 16.2.3.2 Product Portfolio
 - 16.2.3.3 Demographic Reach and Achievements
 - 16.2.3.4 Certifications
 - 16.2.4 NXP Semiconductors N.V.
 - 16.2.4.1 Company Overview
 - 16.2.4.2 Product Portfolio
 - 16.2.4.3 Demographic Reach and Achievements
 - 16.2.4.4 Certifications
 - 16.2.5 Analog Devices Inc.
 - 16.2.5.1 Company Overview
 - 16.2.5.2 Product Portfolio
 - 16.2.5.3 Demographic Reach and Achievements
 - 16.2.5.4 Certifications
 - 16.2.6 Microchip Technology Inc.
 - 16.2.6.1 Company Overview
 - 16.2.6.2 Product Portfolio
 - 16.2.6.3 Demographic Reach and Achievements
 - 16.2.6.4 Certifications
 - 16.2.7 InvenSense, Inc.
 - 16.2.7.1 Company Overview
 - 16.2.7.2 Product Portfolio
 - 16.2.7.3 Demographic Reach and Achievements
 - 16.2.7.4 Certifications
 - 16.2.8 Bosch Sensortec GmbH

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- 16.2.8.1 Company Overview
- 16.2.8.2 Product Portfolio
- 16.2.8.3 Demographic Reach and Achievements
- 16.2.8.4 Certifications
- 16.2.9 KIONIX, Inc.
 - 16.2.9.1 Company Overview
 - 16.2.9.2 Product Portfolio
 - 16.2.9.3 Demographic Reach and Achievements
 - 16.2.9.4 Certifications
- 16.2.10 MEMSIC Semiconductor (Tianjin) Co., Ltd.
 - 16.2.10.1 Company Overview
 - 16.2.10.2 Product Portfolio
 - 16.2.10.3 Demographic Reach and Achievements
 - 16.2.10.4 Certifications
- 16.2.11 Others
- 17 Key Trends and Developments in the Market

List of Key Figures and Tables

1. Global Motion Sensor Market: Key Industry Highlights, 2018 and 2032
2. Global Motion Sensor Historical Market: Breakup by Motion Technology (USD Billion), 2018-2022
3. Global Motion Sensor Market Forecast: Breakup by Motion Technology (USD Billion), 2023-2028
4. Global Motion Sensor Historical Market: Breakup by Application (USD Billion), 2018-2022
5. Global Motion Sensor Market Forecast: Breakup by Application (USD Billion), 2023-2028
6. Global Motion Sensor Historical Market: Breakup by Region (USD Billion), 2018-2022
7. Global Motion Sensor Market Forecast: Breakup by Region (USD Billion), 2023-2028
8. North America Motion Sensor Historical Market: Breakup by Country (USD Billion), 2018-2022
9. North America Motion Sensor Market Forecast: Breakup by Country (USD Billion), 2023-2028
10. Europe Motion Sensor Historical Market: Breakup by Country (USD Billion), 2018-2022
11. Europe Motion Sensor Market Forecast: Breakup by Country (USD Billion), 2023-2028
12. Asia Pacific Motion Sensor Historical Market: Breakup by Country (USD Billion), 2018-2022
13. Asia Pacific Motion Sensor Market Forecast: Breakup by Country (USD Billion), 2023-2028
14. Latin America Motion Sensor Historical Market: Breakup by Country (USD Billion), 2018-2022
15. Latin America Motion Sensor Market Forecast: Breakup by Country (USD Billion), 2023-2028
16. Middle East and Africa Motion Sensor Historical Market: Breakup by Country (USD Billion), 2018-2022
17. Middle East and Africa Motion Sensor Market Forecast: Breakup by Country (USD Billion), 2023-2028
18. Global Motion Sensor Market Structure

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