

# **HMI Sensors In Wearables Market Size, Share & Trends Analysis Report By Sensor Type (Touch Sensors, Motion Sensors), By Device Type, By Application, By End Use, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 4 Business Days

### **HMI Sensors In Wearables Market Trends**

The global HMI sensors in wearables market size was estimated at USD 3.36 billion in 2024 and is anticipated to grow at a CAGR of 14.2% from 2025 to 2030. Human-Machine Interface (HMI) sensors enable enhanced interaction through touch, gesture, voice, and biometric recognition and are integral to wearables such as smartwatches, fitness trackers, and AR/VR headsets. These sensors facilitate seamless communication between users and devices, boosting health monitoring, fitness tracking, and real-time feedback functionality.

In addition, advancements in sensor miniaturization and low-power consumption technologies are making it easier to integrate sophisticated Human-Machine Interface capabilities into compact wearable designs, further fueling market expansion. The growing popularity of smartwatches, fitness bands, AR/VR headsets, and hearables is significantly propelling the demand for advanced market. These devices are no longer just accessories but have evolved into powerful tools for communication, health tracking, entertainment, and productivity. As consumers increasingly expect more functionality from their wearables, manufacturers are integrating sophisticated HMI sensors that enable seamless and intuitive interaction between users and devices.

The advancement of multi-functional sensors is playing a pivotal role in driving the growth of HMI sensors in wearables industry. As wearable devices become more compact and lightweight, there is a growing need for components that can perform multiple functions without compromising size, power efficiency, or responsiveness. Multi-functional HMI sensors meet this demand by integrating various sensing capabilities- such as motion detection, touch sensitivity, temperature measurement, and biometric monitoring-into a single, compact unit. This not only streamlines device design but also enhances the overall responsiveness and interactivity of the device.

Moreover, these sensors' enhanced responsiveness is critical in applications where speed and precision are vital, such as in fitness tracking, remote healthcare monitoring, and immersive AR/VR experiences. In these contexts, any delay or misinterpretation in the interface can significantly degrade user satisfaction or even compromise safety. Multi-functional HMI sensors, by offering rapid signal processing and context-aware functionality, ensure that wearable devices respond quickly and accurately to both deliberate commands and subtle environmental changes.

For instance, in October 2024, WEART, an Italian electronics company, announced the launch of TouchDIVER Pro, a new wearable haptic glove designed to enhance XR interactions for business applications. The glove features six actuation points that deliver force feedback, texture simulation, and thermal sensations across all five fingers and the palm. This design enables users to experience highly realistic tactile interactions, making it well-suited for augmented, virtual, and mixed reality environments across various professional use cases.

## Global HMI Sensors In Wearables Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the HMI sensors in wearables market report based on sensor type, device type, application, end use, and region.

### Sensor Type Outlook (Revenue, USD Billion, 2018 - 2030)

#### Touch Sensors

#### Motion Sensors

Biometric Sensors

Voice & Audio Sensors

Environmental Sensors

Others

Device Type Outlook (Revenue, USD Billion, 2018 - 2030)

Smartwatches & Fitness Bands

Smart Glasses/AR Glasses

Smart Clothing

Smart Rings/Wristbands

Hearables/Earbuds

Head-Mounted Displays (HMDs)

Others

Application Outlook (Revenue, USD Billion, 2018 - 2030)

Health & Fitness Monitoring

Gesture and Motion Control

Communication & Voice Interaction

Ambient Sensing & Personalization

Gaming & Immersive Experience

Others

End Use Outlook (Revenue, USD Billion, 2018 - 2030)

Consumer Electronics

Healthcare

Enterprise & Industrial Applications

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

### **Companies Mentioned**

ams-OSRAM AG

Bosch Sensortec GmbH

Infineon Technologies AG

Shenzhen Goodix Technology Co., Ltd.

Microchip Technology Inc.

NXP Semiconductors

STMicroelectronics

Synaptics Incorporated

Sensirion AG

TDK Corporation

Texas Instruments Incorporated

UltraSense Systems Inc.

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