

Proximity Sensors Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

<https://marketpublishers.com/r/P01F258460D1EN.html>

Date: September 2024

Pages: 220

Price: US\$ 4,365.00 (Single User License)

ID: P01F258460D1EN

Abstracts

The Global Proximity Sensors Market was valued at USD 4.7 billion in 2023 and is projected to grow at a CAGR of 5% from 2024 to 2032. Advancements in automotive technology significantly drive this growth. The integration of automated parking solutions and advanced driver-assistance systems in modern vehicles has increased demand for proximity sensors. Major automotive manufacturers like Toyota and Tesla extensively incorporate these sensors to enhance vehicle safety. Automation in industrial manufacturing is another key growth driver.

Industries are deploying proximity sensors in robotics, manufacturing processes, and conveyor systems to improve efficiency and reduce operational costs. These sensors are crucial for detecting counting, object presence, and quality control. The overall proximity sensors industry is classified based on type, sensing range, technology, application, technology, output type, and region. Based on technology, the market is divided into passive and active proximity sensors.

The active proximity sensors segment dominated the market in 2023 and is expected to surpass USD 2 billion by 2032. Active proximity sensors emit signals and detect reflections to determine the presence, distance, and speed of objects. They are widely used in automotive systems, industrial automation, and consumer electronics.

Additionally, these sensors offer higher accuracy and faster response times compared to passive sensors, making them ideal for applications requiring real-time object detection and tracking. Based on sensing range, the market is segmented into medium range (10 mm to 50 mm), short range (up to 10 mm), and long range (above 50 mm).

The long range segment, with a detection range exceeding 50 mm, is the fastest growing, with a CAGR of over 7% from 2024 to 2032. These sensors are essential for precise object detection at a distance, crucial in industrial automation, automotive systems, and safety monitoring applications. The proximity sensors market is

experiencing growth in Asia Pacific, expected to exceed USD 2.5 billion by 2032. The region's robust manufacturing sector, particularly in China, Japan, South Korea, and Taiwan, drives this growth. These countries are major electronics manufacturers and automotive producers, heavily utilizing proximity sensors. Japan's market benefits from its strong consumer electronics and automotive industries, with a focus on technological innovation and precision manufacturing.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast parameters
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2024 - 2032
- 2.2 Business trends
 - 2.2.1 Total addressable market (TAM), 2024-2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Vendor matrix
- 3.3 Technology & innovation landscape
- 3.4 Patent analysis
- 3.5 Key news and initiatives
- 3.6 Regulatory landscape
- 3.7 Impact forces
 - 3.7.1 Growth drivers
 - 3.7.1.1 Increased demand in automotive industry
 - 3.7.1.2 Expansion of industrial automation
 - 3.7.1.3 Proliferation of consumer electronics
 - 3.7.1.4 Advancements in healthcare technology
 - 3.7.1.5 Growth in aerospace & defense applications
 - 3.7.2 Industry pitfalls & challenges
 - 3.7.2.1 High initial costs
 - 3.7.2.2 Performance challenges in harsh environments

3.8 Growth potential analysis

3.9 Porter's analysis

3.9.1 Supplier power

3.9.2 Buyer power

3.9.3 Threat of new entrants

3.9.4 Threat of substitutes

3.9.5 Industry rivalry

3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Company market share analysis

4.2 Competitive positioning matrix

4.3 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY TYPE, 2021 - 2032 (USD MILLION & UNITS)

5.1 Key trends

5.2 Inductive proximity sensors

5.3 Capacitive proximity sensors

5.4 Magnetic proximity sensors

5.5 Photoelectric proximity sensors

5.6 Ultrasonic proximity sensors

5.7 Laser proximity sensors

5.8 Radar-Based proximity sensors

5.9 Optical proximity sensors

5.10 Others

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY TECHNOLOGY, 2021 - 2032 (USD MILLION & UNITS)

6.1 Key trends

6.2 Active proximity sensors

6.3 Passive proximity sensors

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY SENSING RANGE, 2021 - 2032 (USD MILLION & UNITS)

- 7.1 Key trends
- 7.2 Short range (Up to 10 mm)
- 7.3 Medium range (10 mm to 50 mm)
- 7.4 Long range (Above 50 mm)

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021 - 2032 (USD MILLION & UNITS)

- 8.1 Key trends
- 8.2 Distance measurement
- 8.3 Object detection
- 8.4 Speed measurement
- 8.5 Level sensing
- 8.6 Presence detection
- 8.7 Position sensing
- 8.8 Other

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY OUTPUT TYPE, 2021 - 2032 (USD MILLION & UNITS)

- 9.1 Key trends
- 9.2 Analog output
- 9.3 Digital output
- 9.4 Discrete output
- 9.5 Linear output
- 9.6 Others

CHAPTER 10 MARKET ESTIMATES & FORECAST, BY END-USE, 2021 - 2032 (USD MILLION & UNITS)

- 10.1 Key trends
- 10.2 Automotive
- 10.3 Consumer electronics
- 10.4 Industrial manufacturing
- 10.5 Healthcare
- 10.6 Food and beverage
- 10.7 Aerospace & defense
- 10.8 Others

CHAPTER 11 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2032 (USD MILLION & UNITS)

- 11.1 Key trends
- 11.2 North America
 - 11.2.1 U.S.
 - 11.2.2 Canada
- 11.3 Europe
 - 11.3.1 UK
 - 11.3.2 Germany
 - 11.3.3 France
 - 11.3.4 Italy
 - 11.3.5 Spain
 - 11.3.6 Rest of Europe
- 11.4 Asia Pacific
 - 11.4.1 China
 - 11.4.2 India
 - 11.4.3 Japan
 - 11.4.4 South Korea
 - 11.4.5 ANZ
 - 11.4.6 Rest of Asia Pacific
- 11.5 Latin America
 - 11.5.1 Brazil
 - 11.5.2 Mexico
 - 11.5.3 Rest of Latin America
- 11.6 MEA
 - 11.6.1 UAE
 - 11.6.2 Saudi Arabia
 - 11.6.3 South Africa
 - 11.6.4 Rest of MEA

CHAPTER 12 COMPANY PROFILES

- 12.1 Honeywell International Inc.
- 12.2 Omron Corporation
- 12.3 Panasonic Corporation
- 12.4 Rockwell Automation, Inc.
- 12.5 Schneider Electric SE
- 12.6 Siemens AG

- 12.7 Texas Instruments Inc.
- 12.8 Balluff GmbH
- 12.9 Pepperl+Fuchs
- 12.10 Turck GmbH & Co. KG
- 12.11 Keyence Corporation
- 12.12 Eaton Corporation
- 12.13 Festo AG & Co. KG
- 12.14 Baumer Group
- 12.15 IFM Electronic GmbH
- 12.16 STMicroelectronics
- 12.17 Autonics Corporation
- 12.18 Banner Engineering Corp.
- 12.19 Micro-Epsilon
- 12.20 Wenglor Sensoric GmbH
- 12.21 Contrinex AG
- 12.22 Sensata Technologies
- 12.23 Leuze Electronic GmbH + Co. KG
- 12.24 OmniVision Technologies, Inc.

I would like to order

Product name: Proximity Sensors Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Product link: <https://marketpublishers.com/r/P01F258460D1EN.html>

Price: US\$ 4,365.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/P01F258460D1EN.html>