

# **Proximity Sensor Market Report by Technology (Inductive, Capacitive, Photoelectric, Magnetic, and Others), Sensing Range (0 MM–20 MM Sensing Range, 20 MM–40 MM Sensing Range, Greater Than 40 MM Sensing Range), End Use Industry (Aerospace and Defense, Automotive, Industrial, Consumer Electronics, Food and Beverage, and Others), and Region 2024-2032**

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## **Abstracts**

The global proximity sensor market size reached US\$ 4.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 8.0 Billion by 2032, exhibiting a growth rate (CAGR) of 6% during 2024-2032.

A proximity sensor relies on sound, light, infrared radiation (IR), or electromagnetic fields to detect the presence or approach of objects within its vicinity. It identifies an object without physical contact and does not cause abrasion or damage to the target. It can work in harsh environmental conditions for identifying metallic and non-metallic objects and avoiding security challenges. As a result, a proximity sensor finds extensive applications in different industry verticals, such as aerospace, electronics, and manufacturing. At present, some of the commonly used proximity sensors include inductive, capacitive, photoelectric, and magnetic.

Proximity Sensor Market Trends:

The increasing automation in complex production systems represents one of the key factors propelling the growth of the market. Moreover, proximity sensors are widely utilized for measuring and controlling the gap between a robotic welding torch head and

the work surface, detecting surface irregularities in machined parts, and monitoring bearing assembly processes. They are also used for gauging the thickness of metal plates in manufacturing operations and determining the angular speed at a steady state by counting the number of rotations per unit time. In addition, there is a rise in the employment of proximity sensors in automobiles for detecting the physical closeness of other vehicles. Besides this, ultrasonic and electromagnetic sensors are used in parking assistance and reverse warning applications. Apart from this, ultrasonic parking sensors can detect humans, which can help prevent backover accidents involving pedestrians. This, coupled with the thriving automotive industry, is positively influencing the market. Other factors stimulating the market growth include the increasing adoption of proximity sensors in robotics for collision avoidance and the proliferation of the industrial internet of things (IIoT) around the world.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global proximity sensor market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on technology, sensing range and end use industry.

#### Breakup by Technology:

- Inductive
- Capacitive
- Photoelectric
- Magnetic
- Others

#### Breakup by Sensing Range:

- 0 MM–20 MM Sensing Range
- 20 MM–40 MM Sensing Range
- Greater Than 40 MM Sensing Range

#### Breakup by End Use Industry:

- Aerospace and Defense
- Automotive
- Industrial
- Consumer Electronics

Food and Beverage  
Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Autonics Corporation, Balluff GmbH, Datalogic S.p.A., Fargo Controls Inc., Honeywell International Inc., Keyence Corporation, OMRON Corporation, Panasonic Corporation, Pepperl+Fuchs SE, Riko Opto-Electronics Technology Co. Ltd, Rockwell Automation Inc., Sick AG and STMicroelectronics.

Key Questions Answered in This Report

1. What was the size of the global proximity sensor market in 2023?
2. What is the expected growth rate of the global proximity sensor market during 2024-2032?
3. What are the key factors driving the global proximity sensor market?
4. What has been the impact of COVID-19 on the global proximity sensor market?
5. What is the breakup of the global proximity sensor market based on the technology?
6. What is the breakup of the global proximity sensor market based on the end use industry?
7. What are the key regions in the global proximity sensor market?
8. Who are the key players/companies in the global proximity sensor market?

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