

# Capacitive Sensor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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## Abstracts

The global capacitive sensor market size reached US\$ 28.9 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 39.7 Billion by 2027, exhibiting a growth rate (CAGR) of 5.37% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

A capacitive sensor refers to a proximity sensing device that detects the presence or absence of electrically charged components in a particular material. The sensor consists of a probe that measures the distance of the target, an electronic driver to convert the changes in oscillations into voltage and an electronic device to indicate and record the resulting voltage change. It is commonly used for the detection and measurement of position, proximity and acceleration in various devices, such as mobile phones, tablets, laptops, trackpads, automobiles and aerospace components. In comparison to the traditionally used resistive or inductive sensors, capacitive sensors are more durable, sensitive and provide more accurate measurements. As a result, they find extensive applications across various industries, such as consumer electronics, aerospace, healthcare, food and beverages and automotive.

### Global Capacitive Sensor Market Trends and Drivers:

Significant growth in the consumer electronics industry across the globe, along with the rising automation of complex manufacturing processes, is one of the key factors creating a positive impact on the market. Capacitive sensors facilitate process control in manufacturing units by detecting the presence and position of unwanted metal objects, especially in smartphones, laptops, tablets and gaming consoles. Furthermore,

widespread utilization of touchscreen display systems for human-machine interaction is providing a boost to the market growth. These sensors are used in infotainment, keyless entry, 3D gestures and interior lighting control systems and are also used for preventing automobile collisions with pedestrians or other objects while parking automobiles. Other factors, including miniaturization of sensors and the increasing adoption of medical robots to perform complex surgeries, are expected to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global capacitive sensor market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type and end use industry.

#### Breakup by Type:

- Touch Sensor
- Motion Sensor
- Position Sensor
- Others

#### Breakup by End Use Industry:

- Consumer Electronics
- Automotive
- Aerospace and Defense
- Healthcare
- Food and Beverages
- Oil and Gas
- 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 report has also analysed the competitive landscape of the market with some of the key players being 3M Company, Analog Devices Inc., Cirque Corporation (Alps Electric Co. Ltd.), Infineon Technologies AG, Microchip Technology Inc, NXP Semiconductors N.V., Omron Corporation, Renesas Electronics Corporation, Schneider Electric, STMicroelectronics N.V., Synaptics Incorporated and Texas Instruments Incorporated.

#### Key Questions Answered in This Report:

How has the global capacitive sensor market performed so far and how will it perform in the coming years?  
What has been the impact of COVID-19 on the global capacitive sensor market?  
What are the key regional markets?  
What is the breakup of the market based on the type?  
What is the breakup of the market based on the end use industry?  
What are the various stages in the value chain of the industry?  
What are the key driving factors and challenges in the industry?  
What is the structure of the global capacitive sensor market and who are the key players?  
What is the degree of competition in the industry?

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