

North America Capacitive Sensor Market By Type (Touch Sensor, Motion Sensor, Position Sensor and Others), By End User (Consumer Electronics, Automotive, Aerospace & Defense, Oil & Gas, Healthcare & Life Sciences, Manufacturing and Others), By Country, Industry Analysis and Forecast, 2020 - 2026

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Abstracts

The North America Capacitive Sensor Market would witness market growth of 6.8% CAGR during the forecast period (2020-2026).

Capacitive sensors are separate devices so that the sensor is either on or off when you change the sensitivity to identify the target while you disregard the container. In the case of a standard capacitance sensor, or in the case of hybrid technology, the sensor is also looking for the dielectric constant. Recent technology developments with remote amplifiers have allowed capacitive sensors to provide analog output or digital input via IO-Link. These sensors are centered on a dielectric constant so that the analog value produced depends on the media being sensed.

While capacitive sensors are versatile for use in many applications, they are not the right choice for all applications. Recently, the customer asked whether a capacitive sensor could detect the density of the substance and, unfortunately, the short answer is no, although in some applications analog sensors can detect different media levels if they can be separated in a centrifuge. In addition, capacitive sensors may not detect small amounts of media as the media's dielectric constant must be greater than the media container.

Increasing government support for research and development activities in nanotechnology-based applications like space exploration, medicine, food packaging and water purification has stimulated market growth. The National Science Foundation

(NSF) has been providing financing, for instance, for the development of capacitive sensors for the health and food and beverage industry, since September 2016 to various companies such as Texas Instruments Incorporated and Synaptics Inc. In addition, the decrease in the size of the capacitive sensors allowed it to be used for motion stabilizing purposes in aerial unmanned vehicles and in mobile robotics.

Based on Type, the market is segmented into Touch Sensor, Motion Sensor, Position Sensor and Others. Based on End User, the market is segmented into Consumer Electronics, Automotive, Aerospace & Defense, Oil & Gas, Healthcare & Life Sciences, Manufacturing and Others. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Analog Devices, Inc., Infineon Technologies AG, NXP Semiconductors N.V., STMicroelectronics N.V., Schneider Electric SE, Renesas Electronics Corporation, Texas Instruments, Inc., Omron Corporation, Synaptics, Inc., and Microchip Technology, Inc.

Scope of the Study

Market Segmentation:

By Type

Touch Sensor

Motion Sensor

Position Sensor

Others

By End User

Consumer Electronics

Automotive

Aerospace & Defense

Oil & Gas

Healthcare & Life Sciences

Manufacturing

Others

By Country

US

Canada

Mexico

Rest of North America

Companies Profiled

Analog Devices, Inc.

Infineon Technologies AG

NXP Semiconductors N.V.

STMicroelectronics N.V.

Schneider Electric SE

Renesas Electronics Corporation

Texas Instruments, Inc.

Omron Corporation

Synaptics, Inc.

Microchip Technology, Inc.

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Contents

CHAPTER 1. MARKET SCOPE & METHODOLOGY

- 1.1 Market Definition
- 1.2 Objectives
- 1.3 Market Scope
- 1.4 Segmentation
 - 1.4.1 North America Capacitive Sensor Market, by Type
 - 1.4.2 North America Capacitive Sensor Market, by End User
 - 1.4.3 North America Capacitive Sensor Market, by Country
- 1.5 Methodology for the research

CHAPTER 2. MARKET OVERVIEW

- 2.1 Introduction
 - 2.1.1 Overview
 - 2.1.2 Executive Summary
 - 2.1.3 Market Composition and Scenario
- 2.2 Key Factors Impacting the Market
 - 2.2.1 Market Drivers
 - 2.2.2 Market Restraints

CHAPTER 3. COMPETITION ANALYSIS - GLOBAL

- 3.1 KBV Cardinal Matrix
- 3.2 Recent Industry Wide Strategic Developments
 - 3.2.1 Partnerships, Collaborations and Agreements
 - 3.2.2 Product Launches and Product Expansions
 - 3.2.3 Mergers & Acquisitions
- 3.3 Top Winning Strategies
 - 3.3.1 Key Leading Strategies: Percentage Distribution (2016-2020)
 - 3.3.2 Key Strategic Move: (Product Launches and Product Expansions : 2016, Feb – 2020, May) Leading Players

CHAPTER 4. NORTH AMERICA CAPACITIVE SENSOR MARKET BY TYPE

- 4.1 North America Capacitive Sensor Touch Sensor Market by Country
- 4.2 North America Capacitive Sensor Motion Sensor Market by Country

- 4.3 North America Capacitive Sensor Position Sensor Market by Country
- 4.4 North America Other Type Capacitive Sensor Market by Country

CHAPTER 5. NORTH AMERICA CAPACITIVE SENSOR MARKET BY END USER

- 5.1 North America Consumer Electronics Capacitive Sensor Market by Country
- 5.2 North America Automotive Capacitive Sensor Market by Country
- 5.3 North America Aerospace & Defense Capacitive Sensor Market by Country
- 5.4 North America Oil & Gas Capacitive Sensor Market by Country
- 5.5 North America Healthcare & Life Sciences Capacitive Sensor Market by Country
- 5.6 North America Manufacturing Capacitive Sensor Market by Country
- 5.7 North America Others Capacitive Sensor Market by Country

CHAPTER 6. NORTH AMERICA CAPACITIVE SENSOR MARKET BY COUNTRY

- 6.1 US Capacitive Sensor Market
 - 6.1.1 US Capacitive Sensor Market by Type
 - 6.1.2 US Capacitive Sensor Market by End User
- 6.2 Canada Capacitive Sensor Market
 - 6.2.1 Canada Capacitive Sensor Market by Type
 - 6.2.2 Canada Capacitive Sensor Market by End User
- 6.3 Mexico Capacitive Sensor Market
 - 6.3.1 Mexico Capacitive Sensor Market by Type
 - 6.3.2 Mexico Capacitive Sensor Market by End User
- 6.4 Rest of North America Capacitive Sensor Market
 - 6.4.1 Rest of North America Capacitive Sensor Market by Type
 - 6.4.2 Rest of North America Capacitive Sensor Market by End User

CHAPTER 7. COMPANY PROFILES

- 7.1 Analog Devices, Inc.
 - 7.1.1 Company Overview
 - 7.1.2 Financial Analysis
 - 7.1.3 Segmental and Regional Analysis
 - 7.1.4 Research & Development Expenses
 - 7.1.5 Recent strategies and developments:
 - 7.1.5.1 Partnerships, Collaborations, and Agreements:
 - 7.1.5.2 Acquisition and Mergers:
 - 7.1.5.3 Product Launches and Product Expansions:

- 7.1.6 SWOT Analysis
- 7.2 Infineon Technologies AG
 - 7.2.1 Company Overview
 - 7.2.2 Financial Analysis
 - 7.2.3 Segmental and Regional Analysis
 - 7.2.4 Research & Development Expense
 - 7.2.5 Recent strategies and developments:
 - 7.2.5.1 Partnerships, Collaborations, and Agreements:
 - 7.2.5.2 Acquisition and Mergers:
 - 7.2.5.3 Product Launches and Product Expansions:
 - 7.2.6 SWOT Analysis
- 7.3 NXP Semiconductors N.V.
 - 7.3.1 Company Overview
 - 7.3.2 Financial Analysis
 - 7.3.3 Regional Analysis
 - 7.3.4 Research & Development Expense
 - 7.3.5 Recent strategies and developments:
 - 7.3.5.1 Product Launches and Product Expansions:
 - 7.3.6 SWOT Analysis
- 7.4 STMicroelectronics N.V.
 - 7.4.1 Company Overview
 - 7.4.2 Financial Analysis
 - 7.4.3 Segmental and Regional Analysis
 - 7.4.4 Research & Development Expense
 - 7.4.5 Recent strategies and developments:
 - 7.4.5.1 Partnerships, Collaborations, and Agreements:
 - 7.4.5.2 Product Launches and Product Expansions:
 - 7.4.6 SWOT Analysis
- 7.5 Schneider Electric SE
 - 7.5.1 Company Overview
 - 7.5.2 Financial Analysis
 - 7.5.3 Segmental And Regional Analysis
 - 7.5.4 Research & Development Expense
 - 7.5.5 Recent strategies and developments:
 - 7.5.5.1 Product Launches and Product Expansions:
 - 7.5.6 SWOT Analysis
- 7.6 Renesas Electronics Corporation
 - 7.6.1 Company Overview
 - 7.6.2 Financial Analysis

- 7.6.3 Segmental and Regional Analysis
- 7.6.4 Research & Development Expense
- 7.6.5 Recent strategies and developments:
 - 7.6.5.1 Product Launches and Product Expansions:
- 7.7 Texas Instruments, Inc.
 - 7.7.1 Company Overview
 - 7.7.2 Financial Analysis
 - 7.7.3 Segmental and Regional Analysis
 - 7.7.4 Research & Development Expense
 - 7.7.5 Recent strategies and developments:
 - 7.7.5.1 Product Launches and Product Expansions:
 - 7.7.6 SWOT Analysis
- 7.8 Omron Corporation
 - 7.8.1 Company Overview
 - 7.8.2 Financial Analysis
 - 7.8.3 Segmental and Regional Analysis
 - 7.8.4 Research & Development Expense
 - 7.8.5 Recent strategies and developments:
 - 7.8.5.1 Product Launches and Product Expansions:
 - 7.8.6 SWOT Analysis
- 7.9 Synaptics, Inc.
 - 7.9.1 Company Overview
 - 7.9.2 Financial Analysis
 - 7.9.3 Regional Analysis
 - 7.9.4 Research & Development Expense
 - 7.9.5 Recent strategies and developments:
 - 7.9.5.1 Partnerships, Collaborations, and Agreements:
 - 7.9.5.2 Product Launches and Product Expansions:
- 7.1 Microchip Technology, Inc.
 - 7.10.1 Company overview
 - 7.10.2 Financial Analysis
 - 7.10.3 Segmental and Regional Analysis
 - 7.10.4 Research & Development Expenses
 - 7.10.5 Recent strategies and developments:
 - 7.10.5.1 Product Launches and Product Expansions:

List Of Tables

LIST OF TABLES

TABLE 1 NORTH AMERICA CAPACITIVE SENSOR MARKET, 2016 - 2019, USD MILLION

TABLE 2 NORTH AMERICA CAPACITIVE SENSOR MARKET, 2020 - 2026, USD MILLION

TABLE 3 PARTNERSHIPS, COLLABORATIONS AND AGREEMENTS– CAPACITIVE SENSORS MARKET

TABLE 4 PRODUCT LAUNCHES AND PRODUCT EXPANSIONS– CAPACITIVE SENSORS MARKET

TABLE 5 MERGERS & ACQUISITIONS – CAPACITIVE SENSORS MARKET

TABLE 6 NORTH AMERICA CAPACITIVE SENSOR MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 7 NORTH AMERICA CAPACITIVE SENSOR MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 8 NORTH AMERICA CAPACITIVE SENSOR TOUCH SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 9 NORTH AMERICA CAPACITIVE SENSOR TOUCH SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 10 NORTH AMERICA CAPACITIVE SENSOR MOTION SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 11 NORTH AMERICA CAPACITIVE SENSOR MOTION SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 12 NORTH AMERICA CAPACITIVE SENSOR POSITION SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 13 NORTH AMERICA CAPACITIVE SENSOR POSITION SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 14 NORTH AMERICA OTHER TYPE CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 15 NORTH AMERICA OTHER TYPE CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 16 NORTH AMERICA CAPACITIVE SENSOR MARKET BY END USER, 2016 - 2019, USD MILLION

TABLE 17 NORTH AMERICA CAPACITIVE SENSOR MARKET BY END USER, 2020 - 2026, USD MILLION

TABLE 18 NORTH AMERICA CONSUMER ELECTRONICS CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 19 NORTH AMERICA CONSUMER ELECTRONICS CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 20 NORTH AMERICA AUTOMOTIVE CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 21 NORTH AMERICA AUTOMOTIVE CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 22 NORTH AMERICA AEROSPACE & DEFENSE CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 23 NORTH AMERICA AEROSPACE & DEFENSE CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 24 NORTH AMERICA OIL & GAS CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 25 NORTH AMERICA OIL & GAS CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 26 NORTH AMERICA HEALTHCARE & LIFE SCIENCES CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 27 NORTH AMERICA HEALTHCARE & LIFE SCIENCES CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 28 NORTH AMERICA MANUFACTURING CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 29 NORTH AMERICA MANUFACTURING CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 30 NORTH AMERICA OTHERS CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 31 NORTH AMERICA OTHERS CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 32 NORTH AMERICA CAPACITIVE SENSOR MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 33 NORTH AMERICA CAPACITIVE SENSOR MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 34 US CAPACITIVE SENSOR MARKET, 2016 - 2019, USD MILLION

TABLE 35 US CAPACITIVE SENSOR MARKET, 2020 - 2026, USD MILLION

TABLE 36 US CAPACITIVE SENSOR MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 37 US CAPACITIVE SENSOR MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 38 US CAPACITIVE SENSOR MARKET BY END USER, 2016 - 2019, USD MILLION

TABLE 39 US CAPACITIVE SENSOR MARKET BY END USER, 2020 - 2026, USD MILLION

TABLE 40 CANADA CAPACITIVE SENSOR MARKET, 2016 - 2019, USD MILLION

TABLE 41 CANADA CAPACITIVE SENSOR MARKET, 2020 - 2026, USD MILLION

TABLE 42 CANADA CAPACITIVE SENSOR MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 43 CANADA CAPACITIVE SENSOR MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 44 CANADA CAPACITIVE SENSOR MARKET BY END USER, 2016 - 2019, USD MILLION

TABLE 45 CANADA CAPACITIVE SENSOR MARKET BY END USER, 2020 - 2026, USD MILLION

TABLE 46 MEXICO CAPACITIVE SENSOR MARKET, 2016 - 2019, USD MILLION

TABLE 47 MEXICO CAPACITIVE SENSOR MARKET, 2020 - 2026, USD MILLION

TABLE 48 MEXICO CAPACITIVE SENSOR MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 49 MEXICO CAPACITIVE SENSOR MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 50 MEXICO CAPACITIVE SENSOR MARKET BY END USER, 2016 - 2019, USD MILLION

TABLE 51 MEXICO CAPACITIVE SENSOR MARKET BY END USER, 2020 - 2026, USD MILLION

TABLE 52 REST OF NORTH AMERICA CAPACITIVE SENSOR MARKET, 2016 - 2019, USD MILLION

TABLE 53 REST OF NORTH AMERICA CAPACITIVE SENSOR MARKET, 2020 - 2026, USD MILLION

TABLE 54 REST OF NORTH AMERICA CAPACITIVE SENSOR MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 55 REST OF NORTH AMERICA CAPACITIVE SENSOR MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 56 REST OF NORTH AMERICA CAPACITIVE SENSOR MARKET BY END USER, 2016 - 2019, USD MILLION

TABLE 57 REST OF NORTH AMERICA CAPACITIVE SENSOR MARKET BY END USER, 2020 - 2026, USD MILLION

TABLE 58 KEY INFORMATION – ANALOG DEVICES, INC.

TABLE 59 KEY INFORMATION – INFINEON TECHNOLOGIES AG

TABLE 60 KEY INFORMATION – NXP SEMICONDUCTORS N.V.

TABLE 61 KEY INFORMATION – STMICROELECTRONICS N.V.

TABLE 62 KEY INFORMATION – SCHNEIDER ELECTRIC SE

TABLE 63 KEY INFORMATION – RENESAS ELECTRONICS CORPORATION

TABLE 64 KEY INFORMATION – TEXAS INSTRUMENTS, INC.

TABLE 65 KEY INFORMATION – OMRON CORPORATION

TABLE 66 KEY INFORMATION – SYNAPTICS, INC.

TABLE 67 KEY INFORMATION – MICROCHIP TECHNOLOGY, INC.

List Of Figures

LIST OF FIGURES

FIG 1 METHODOLOGY FOR THE RESEARCH

FIG 2 KBV CARDINAL MATRIX

FIG 3 KEY LEADING STRATEGIES: PERCENTAGE DISTRIBUTION (2016-2020)

FIG 4 KEY STRATEGIC MOVE: (PRODUCT LAUNCHES AND PRODUCT EXPANSIONS : 2016, FEB – 2020, MAY) LEADING PLAYERS

FIG 5 RECENT STRATEGIES AND DEVELOPMENTS: ANALOG DEVICES, INC.

FIG 6 SWOT ANALYSIS: ANALOG DEVICES, INC.

FIG 7 RECENT STRATEGIES AND DEVELOPMENTS: INFINEON TECHNOLOGIES AG

FIG 8 SWOT ANALYSIS: INFINEON TECHNOLOGIES AG

FIG 9 SWOT ANALYSIS: NXP SEMICONDUCTORS N.V.

FIG 10 RECENT STRATEGIES AND DEVELOPMENTS: STMICROELECTRONICS N.V.

FIG 11 SWOT ANALYSIS: STMICROELECTRONICS N.V.

FIG 12 SWOT ANALYSIS: SCHNEIDER ELECTRIC SE

FIG 13 SWOT ANALYSIS: TEXAS INSTRUMENTS, INC.

FIG 14 SWOT ANALYSIS: OMRON CORPORATION

FIG 15 RECENT STRATEGIES AND DEVELOPMENTS: SYNAPTICS, INC.

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