

# **Industrial Automation Sensors Market by Sensor Type (Level Sensors, Flow Sensors), Type (Contact Sensors, Non-contact Sensors), Mode of Automation, End User, and Geography - Global Forecast to 2029**

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## **Abstracts**

Industrial Automation Sensors Market by Sensor Type (Level Sensors, Flow Sensors), Type (Contact Sensors, Non-contact Sensors), Mode of Automation, End User, and Geography - Global Forecast to 2029

The research report titled, 'Industrial Automation Sensors Market by Sensor Type (Level Sensors, Flow Sensors), Type (Contact Sensors, Non-contact Sensors), Mode of Automation, End User, and Geography - Global Forecast to 2029,' provides an in-depth analysis of the industrial automation sensors market and emphasizes on the current market trends, size, shares, recent developments, and forecast till 2029.

The industrial automation sensors market is projected to reach \$22.59 billion by 2029, at a CAGR of 9.6% from 2022 to 2029.

The growth of this market is attributed to the rising adoption of industry 4.0 and IIoT in manufacturing, the surging demand for smart sensor-enabled wearable devices, and the growing technological advancements in industrial sensors. Furthermore, the adoption of predictive maintenance and the increasing demand for smart sensors from automobile manufacturers to enable safety are expected to offer significant opportunities for the growth of this market.

This study offers a comprehensive analysis of the industrial automation sensors market in terms of sensor type (level sensors, temperature sensors, flow sensors, gas sensors, position sensors, pressure sensors, force sensors, humidity & moisture sensors, image

sensors, other sensors), type (contact sensors, non-contact sensors), mode of automation (semi-automatic systems, fully-automatic systems), and end user (oil & gas, automotive, food & beverage, semiconductors & electronics, chemicals & materials, consumer goods, mining & metals, power, pharmaceuticals & biotech, machines & tools, paper & pulp, aerospace & defense, other end users). The study also evaluates industry competitors and analyzes the regional and country-level markets.

Based on sensor type, the industrial automation sensors market is segmented into level sensors, temperature sensors, flow sensors, gas sensors, position sensors, pressure sensors, force sensors, humidity & moisture sensors, and image sensors. In 2022, the level sensors segment is expected to account for the largest share of the industrial automation sensors market. A level sensor is used to detect and measure the level of liquids, bulk solids, and other fluids. The level measurement is either continuous or in the form of point values. The large market share of this segment is attributed to various factors, such as the need for accuracy, appearance, and response rate, ease of calibration of instruments, size of the instrument, and monitoring and controlling of continuous or point level. However, the gas sensor segment is expected to grow at the highest CAGR during the forecast period.

Based on type, the industrial automation sensors market is segmented into contact sensors and non-contact sensors. In 2022, the contact sensors segment is expected to account for the largest share of the industrial automation sensors market. However, the non-contact sensors segment is expected to grow at the highest CAGR during the forecast period. The growth of this segment is attributed to the various advantages offered by non-contact sensors over contact devices, such as spontaneity, reliability, longevity, and performance consistency. Non-contact sensors are used for process and control, automation, manufacturing, engineering, and other operations across many industries, driving the growth of this segment.

Based on mode of automation, the industrial automation sensors market is segmented into semi-automatic systems and fully-automatic systems. The fully-automatic system segment is expected to grow at the highest CAGR during the forecast period. The increasing focus on maintaining hygiene and food safety and the need to boost production capabilities, minimize human interventions, and increase the ROI are expected to propel the demand for fully-automatic systems in the industrial automation sensors market.

Based on end user, the industrial automation sensors market is segmented into oil & gas, automotive, food & beverage, semiconductors & electronics, chemicals &

materials, consumer goods, mining & metals, power, pharmaceuticals & biotech, machines & tools, paper & pulp, aerospace & defense, and other end users. The automotive segment is expected to grow at the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing acceptance of IoT sensors in processing plants and manufacturing. In addition, the IoT-based industrial automation sensors allow manufacturers to monitor plant sites remotely, improve the safety of industrial assets and workers, and optimize operational efficiency. Integrating these industrial sensors in manufacturing services helps decrease maintenance costs by achieving early fault detection.

Based on geography, North America is expected to record the highest CAGR during the forecast period. The high market growth in North America is driven by factors such as the increasing use of IoT devices & communication networks in the manufacturing and energy industries; the high demand for sensors in different end-use industries such as healthcare, textile, oil and gas, packaging, and automotive industries; the presence of strong automotive and electronic industries; high investments in technology; early adoption of advanced technologies; the increasing investments by key players such as Rockwell Automation, Honeywell International Inc., and Omega Engineering to improve the accuracy and performance of industrial automation sensors; and a large number of technologically enhanced manufacturing facilities.

Some of the key players operating in the industrial automation sensors market are Amphenol Corporation (U.S.), Honeywell International Inc. (U.S.), Infineon Technologies AG (Germany), NXP Semiconductors (Netherlands), Renesas Electronics Corporation (Japan), Rockwell Automation, Inc. (U.S.), Siemens AG (Germany), STMicroelectronics International N.V. (Switzerland), TE Connectivity Ltd. (Switzerland), Texas Instruments Incorporated (U.S.), Dwyer Instruments LTD. (U.S.), Bosch Sensortec GmbH (Germany), ABB Ltd (Sweden), Analog Devices, Inc. (U.S.), and Sensirion AG (Switzerland).

#### Key Questions Answered in the Report:

Which are the high-growth market segments in terms of sensor type, type, mode of automation, end user, and geography?

What is the historical market size of the industrial automation sensors market?

What are the market forecasts and estimates for the period 2022–2029?

What are the major drivers, restraints, opportunities, and challenges in the industrial automation sensors market?

Who are the major players in the market, and what are their market shares?

Who are the major players in various countries?

How is the competitive landscape for the industrial automation sensors market?

What are the recent developments in the industrial automation sensors market?

What are the different strategies adopted by the major players in the market?

Which are the high-growth countries in the industrial automation sensors market?

Who are the local emerging players in the industrial automation sensors market, and how do they compete with other players?

Scope:

Industrial Automation Sensors Market, by Sensor Type

Level Sensors

Temperature Sensors

Flow Sensors

Gas Sensors

Position Sensors

Pressure Sensors

Force Sensors

Humidity & Moisture Sensors

Image Sensors

Other Sensors

#### Industrial Automation Sensors Market, by Type

Contact Sensors

Non-contact Sensors

#### Industrial Automation Sensors Market, by Mode of Automation

Semi-automatic Systems

Fully-automatic Systems

#### Industrial Automation Sensors Market, by End User

Oil & Gas

Automotive

Food & Beverage

Semiconductors & Electronics

Chemicals & Materials

Consumer Goods

Mining & Metals

Power

Pharmaceuticals & Biotech

Machines & Tools

Paper & Pulp

Aerospace & Defense

Other End Users

## Industrial Automation Sensors Market, by Geography

### Asia-Pacific

China

Japan

India

South Korea

Singapore

Rest of Asia-Pacific (RoAPAC)

### Europe

Germany

U.K.

Italy

Netherlands

Sweden

France

Spain

Taiwan

Thailand

Rest Of Europe (RoE)

North America

U.S.

Canada

Latin America

Brazil

Mexico

Rest of Latin America (RoLATAM)

Middle East & Africa

South Africa

UAE

Saudi Arabia

Rest of the Middle East & Africa (RoMEA)

## Contents

### 1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
  - 1.2.1. Limitations
- 1.3. Key Stakeholders

### 2. RESEARCH METHODOLOGY

- 2.1. Research Approach
- 2.2. Data Collection & Validation
  - 2.2.1. Secondary Research
  - 2.2.2. Primary Research
- 2.3. Market Assessment
  - 2.3.1. Market Size Estimation
  - 2.3.2. Bottom-Up Approach
  - 2.3.3. Top-Down Approach
  - 2.3.4. Growth Forecast
- 2.4. Assumptions for the Study

### 3. THE IMPACT OF COVID-19 ON THE INDUSTRIAL AUTOMATION SENSORS MARKET

### 4. EXECUTIVE SUMMARY

- 4.1. Market Analysis, by Sensor Type
- 4.2. Market Analysis, by Type
- 4.3. Market Analysis, by Mode of Automation
- 4.4. Market Analysis, by End User
- 4.5. Market Analysis, by Geography
- 4.6. Competitive Analysis

### 5. MARKET INSIGHTS

- 5.1. Introduction
- 5.2. Global Industrial Automation Sensors Market Drivers: Impact Analysis (2022–2029)
  - 5.2.1. Rising Adoption of Industry 4.0 and IIOT Technologies among Manufacturing

## Industries

5.2.2. Surging Demand for Smart Sensor-Enabled Wearable Devices

5.2.3. Technological Advancements in Industrial Sensors

5.3. Global Industrial Automation Sensors Market Restraints: Impact Analysis (2022–2029)

5.3.1. High Cost of Installing Sensor Networks

5.4. Global Industrial Automation Sensors Market Opportunities: Impact Analysis (2022–2029)

5.4.1. Use of Smart Sensors for Predictive Maintenance

5.4.2. Increasing Utilization of Smart Sensors in the Automotive Industry

5.5. Global Industrial Automation Sensors Market Challenges: Impact Analysis (2022–2029)

5.5.1. Developing Advanced Sensors as per Precise Performance Requirements

## 6. INDUSTRIAL AUTOMATION SENSORS MARKET, BY SENSOR TYPE

6.1. Introduction

6.2. Image Sensors

6.3. Pressure Sensors

6.4. Temperature Sensors

6.5. Position Sensors

6.6. Humidity & Moisture Sensors

6.7. Level Sensors

6.8. Flow Sensors

6.9. Gas Sensors

6.10. Force Sensors

6.11. Other Sensors

## 7. INDUSTRIAL AUTOMATION SENSORS MARKET, BY TYPE

7.1. Introduction

7.2. Contact Sensors

7.3. Non-Contact Sensors

7.3.1. Photonic Sensor

7.3.2. Hall Effect Sensor

7.3.3. Capacitive Sensor

7.3.4. Ultrasonic Sensor

7.3.5. Inductive Sensor

7.3.6. Laser Displacement Sensor

## **8. INDUSTRIAL AUTOMATION SENSORS MARKET, BY MODE OF AUTOMATION**

- 8.1. Introduction
- 8.2. Semi-Automatic Systems
- 8.3. Fully Automatic Systems

## **9. INDUSTRIAL AUTOMATION SENSORS MARKET, BY END-USER**

- 9.1. Introduction
- 9.2. Oil & Gas
- 9.3. Automotive
- 9.4. Food & Beverage
- 9.5. Semiconductor & Electronics
- 9.6. Chemicals & Materials
- 9.7. Consumer Goods
- 9.8. Mining & Metals
- 9.9. Pharmaceuticals & Biotech
- 9.10. Power
- 9.11. Machines & Tools
- 9.12. Paper & Pulp
- 9.13. Aerospace & Defense
- 9.14. Other End-Users (Textile and Agriculture)

## **10. INDUSTRIAL AUTOMATION SENSORS MARKET, BY GEOGRAPHY**

- 10.1. Introduction
- 10.2. Asia-Pacific
  - 10.2.1. China
  - 10.2.2. Japan
  - 10.2.3. India
  - 10.2.4. South Korea
  - 10.2.5. Singapore
  - 10.2.6. Taiwan
  - 10.2.7. Thailand
  - 10.2.8. Rest of Asia-Pacific (ROAPAC)
- 10.3. North America
  - 10.3.1. U.S.
  - 10.3.2. Canada

#### 10.4. Europe

10.4.1. Germany

10.4.2. U.K.

10.4.3. Italy

10.4.4. Netherlands

10.4.5. Sweden

10.4.6. France

10.4.7. Spain

10.4.8. Rest of Europe (ROE)

#### 10.5. Latin America

10.5.1. Brazil

10.5.2. Mexico

10.5.3. Rest of Latin America (ROLATAM)

#### 10.6. Middle East & Africa

10.6.1. South Africa

10.6.2. UAE

10.6.3. Saudi Arabia

10.6.4. Rest of the Middle East & Africa (ROMEAF)

### **11. COMPETITIVE LANDSCAPE**

#### 11.1. Introduction

#### 11.2. Key Growth Strategies

#### 11.3. Market Share Analysis, By Key Player, 2021

11.3.1. Rockwell Automation, Inc.

11.3.2. ABB Ltd

11.3.3. Honeywell International Inc.

### **12. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, STRATEGIC DEVELOPMENTS)**

#### 12.1. Amphenol Corporation

#### 12.2. Honeywell International Inc.

#### 12.3. Infineon Technologies AG

#### 12.4. Renesas Electronics Corporation

#### 12.5. Rockwell Automation, Inc.

#### 12.6. Siemens AG

#### 12.7. STMicroelectronics International N.V.

#### 12.8. Texas Instruments Incorporated

- 12.9. ABB Ltd
- 12.10. Analog Devices, Inc.
- 12.11. TE Connectivity Ltd.
- 12.12. Bosch Sensortec GmbH (A Part of Robert Bosch GmbH)
- 12.13. NXP Semiconductors N.V.
- 12.14. Dwyer Instruments, Inc. (A Part of Arcline Investment Management)
- 12.15. Sensirion AG (A Part of Sensirion Holding AG)

## **13. APPENDIX**

- 13.1. Questionnaire
- 13.2. Available Customization

## List Of Tables

### LIST OF TABLES

Table 1 Currency Conversion Rates (2018–2022)

Table 2 Global Industrial Automation Sensors Market Size, by Sensor Type, 2020–2029 (USD Million)

Table 3 Global Industrial Automation Sensors Market for Image Sensors, by Country/Region, 2020–2029 (USD Million)

Table 4 Global Industrial Automation Sensors Market for Pressure Sensors, by Country/Region, 2020–2029 (USD Million)

Table 5 Global Industrial Automation Sensors Market for Temperature Sensors, by Country/Region, 2020–2029 (USD Million)

Table 6 Global Industrial Automation Sensors Market for Position Sensors, by Country/Region, 2020–2029 (USD Million)

Table 7 Global Industrial Automation Sensors Market for Humidity & Moisture Sensors, by Country/Region, 2020–2029 (USD Million)

Table 8 Global Industrial Automation Sensors Market for Level Sensors, by Country/Region, 2020–2029 (USD Million)

Table 9 Global Industrial Automation Sensors Market for Flow Sensors, by Country/Region, 2020–2029 (USD Million)

Table 10 Global Industrial Automation Sensors Market for Gas Sensors, by Country/Region, 2020–2029 (USD Million)

Table 11 Global Industrial Automation Sensors Market for Force Sensors, by Country/Region, 2020–2029 (USD Million)

Table 12 Global Industrial Automation Sensors Market for Other Sensors, by Country/Region, 2020–2029 (USD Million)

Table 13 Global Industrial Automation Sensors Market Size, by Type, 2020–2029 (USD Million)

Table 14 Global Industrial Automation Sensors Market for Contact Sensors, by Country/Region, 2020–2029 (USD Million)

Table 15 Global Industrial Automation Sensors Market for Non-Contact Sensors, by Country/Region, 2020–2029 (USD Million)

Table 16 Global Industrial Automation Sensors Market Size, by Mode of Automation, 2020–2029 (USD Million)

Table 17 Global Industrial Automation Sensors Market for Semi-Automatic Systems, by Country/Region, 2020–2029 (USD Million)

Table 18 Global Industrial Automation Sensors Market for Fully Automatic Systems, by Country/Region, 2020–2029 (USD Million)

Table 19 Global Industrial Automation Sensors Market Size, by End-User, 2020–2029 (USD Million)

Table 20 Global Industrial Automation Sensors Market for Oil & Gas, by Country/Region, 2020–2029 (USD Million)

Table 21 Global Industrial Automation Sensors Market for Automotive, by Country/Region, 2020–2029 (USD Million)

Table 22 Global Industrial Automation Sensors Market for Food & Beverage, by Country/Region, 2020–2029 (USD Million)

Table 23 Global Industrial Automation Sensors Market for Semiconductor & Electronics, by Country/Region, 2020–2029 (USD Million)

Table 24 Global Industrial Automation Sensors Market for Chemicals & Materials, by Country/Region, 2020–2029 (USD Million)

Table 25 Global Industrial Automation Sensors Market for Consumer Goods, by Country/Region, 2020–2029 (USD Million)

Table 26 Global Industrial Automation Sensors Market for Mining & Metals, by Country/Region, 2020–2029 (USD Million)

Table 27 Global Industrial Automation Sensors Market for Pharmaceuticals & Biotech, by Country/Region, 2020–2029 (USD Million)

Table 28 Global Industrial Automation Sensors Market for Power, by Country/Region, 2020–2029 (USD Million)

Table 29 Global Industrial Automation Sensors Market for Machines & Tools, by Country/Region, 2020–2029 (USD Million)

Table 30 Global Industrial Automation Sensors Market for Paper & Pulp, by Country/Region, 2020–2029 (USD Million)

Table 31 Global Industrial Automation Sensors Market for Aerospace & Defense, by Country/Region, 2020–2029 (USD Million)

Table 32 Global Industrial Automation Sensors Market for Other End-Users, by Country/Region, 2020–2029 (USD Million)

Table 33 Global Industrial Automation Sesnors Market Size, by Country/Region, 2020—2029 (USD Million)

Table 34 Asia-Pacific: Industrial Automation Sensors Market Size, by Country, 2020—2029 (USD Million)

Table 35 Asia-Pacific: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 36 Asia-Pacific: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 37 Asia-Pacific: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 38 Asia-Pacific: Industrial Automation Sensors Market Size, by End User,

2020—2029 (USD Million)

Table 39 China: Industrial Automation Sensors Market Size, by Sensor Type,  
2020—2029 (USD Million)

Table 40 China: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD  
Million)

Table 41 China: Industrial Automation Sensors Market Size, by Mode of Automation,  
2020—2029 (USD Million)

Table 42 China: Industrial Automation Sensors Market Size, by End User, 2020—2029  
(USD Million)

Table 43 Japan: Industrial Automation Sensors Market Size, by Sensor Type,  
2020—2029 (USD Million)

Table 44 Japan: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD  
Million)

Table 45 Japan: Industrial Automation Sensors Market Size, by Mode of Automation,  
2020—2029 (USD Million)

Table 46 Japan: Industrial Automation Sensors Market Size, by End User, 2020—2029  
(USD Million)

Table 47 India: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029  
(USD Million)

Table 48 India: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD  
Million)

Table 49 India: Industrial Automation Sensors Market Size, by Mode of Automation,  
2020—2029 (USD Million)

Table 50 India: Industrial Automation Sensors Market Size, by End User, 2020—2029  
(USD Million)

Table 51 South Korea: Industrial Automation Sensors Market Size, by Sensor Type,  
2020—2029 (USD Million)

Table 52 South Korea: Industrial Automation Sensors Market Size, by Type, 2020—2029  
(USD Million)

Table 53 South Korea: Industrial Automation Sensors Market Size, by Mode of  
Automation, 2020—2029 (USD Million)

Table 54 South Korea: Industrial Automation Sensors Market Size, by End User,  
2020—2029 (USD Million)

Table 55 Singapore: Industrial Automation Sensors Market Size, by Sensor Type,  
2020—2029 (USD Million)

Table 56 Singapore: Industrial Automation Sensors Market Size, by Type, 2020—2029  
(USD Million)

Table 57 Singapore: Industrial Automation Sensors Market Size, by Mode of  
Automation, 2020—2029 (USD Million)

Table 58 Singapore: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 59 Taiwan: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 60 Taiwan: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 61 Taiwan: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 62 Taiwan: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 63 Thailand: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 64 Thailand: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 65 Thailand: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 66 Thailand: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 67 Rest of Asia-Pacific: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 68 Rest of Asia-Pacific: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 69 Rest of Asia-Pacific: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 70 Rest of Asia-Pacific: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 71 North America: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 72 North America: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 73 North America: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 74 North America: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 75 U.S.: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 76 U.S.: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 77 U.S.: Industrial Automation Sensors Market Size, by Mode of Automation,

2020—2029 (USD Million)

Table 78 U.S.: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 79 Canada: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 80 Canada: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 81 Canada: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 82 Canada: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 83 Europe: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 84 Europe: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 85 Europe: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 86 Europe: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 87 Germany: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 88 Germany: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 89 Germany: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 90 Germany: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 91 U.K.: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 92 U.K.: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 93 U.K.: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 94 U.K.: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 95 Italy: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 96 Italy: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 97 Italy: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 98 Italy: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 99 Netherlands: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 100 Netherlands: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 101 Netherlands: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 102 Netherlands: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 103 Sweden: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 104 Sweden: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 105 Sweden: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 106 Sweden: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 107 France: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 108 France: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 109 France: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 110 France: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 111 Spain: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 112 Spain: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 113 Spain: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 114 Spain: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 115 Rest of Europe: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 116 Rest of Europe: Industrial Automation Sensors Market Size, by Type,

2020—2029 (USD Million)

Table 117 Rest of Europe: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 118 Rest of Europe: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 119 Latin America: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 120 Latin America: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 121 Latin America: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 122 Latin America: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 123 Brazil: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 124 Brazil: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 125 Brazil: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 126 Brazil: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 127 Mexico: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 128 Mexico: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 129 Mexico: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 130 Mexico: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 131 Rest of Latin America: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 132 Rest of Latin America: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 133 Rest of Latin America: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 134 Rest of Latin America: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 135 Middle East & Africa: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 136 Middle East & Africa: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 137 Middle East & Africa: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 138 Middle East & Africa: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 139 South Africa: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 140 South Africa: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 141 South Africa: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 142 South Africa: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 143 UAE: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 144 UAE: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 145 UAE: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 146 UAE: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 147 Saudi Arabia: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 148 Saudi Arabia: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 149 Saudi Arabia: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 150 Saudi Arabia: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 151 Rest of Middle East & Africa: Industrial Automation Sensors Market Size, by Sensor Type, 2020—2029 (USD Million)

Table 152 Rest of Middle East & Africa: Industrial Automation Sensors Market Size, by Type, 2020—2029 (USD Million)

Table 153 Rest of Middle East & Africa: Industrial Automation Sensors Market Size, by Mode of Automation, 2020—2029 (USD Million)

Table 154 Rest of Middle East & Africa: Industrial Automation Sensors Market Size, by End User, 2020—2029 (USD Million)

Table 155 Global Industrial Automation Sensors Market: Recent Developments, by

Company (2019–2022)

## List Of Figures

### LIST OF FIGURES

Figure 1 Research Process

Figure 2 Primary Research Techniques

Figure 3 Key Executives Interviewed

Figure 4 Breakdown of Primary Interviews (Supply-Side & Demand-Side)

Figure 5 Market Sizing and Growth Forecast Approach

Figure 6 Key Insights

Figure 7 Global Industrial Automation Sensors Market Size, by Sensor Type (2029)

Figure 8 Global Industrial Automation Sensors Market Size, by Type (2029)

Figure 9 Global Industrial Automation Sensors Market Size, by Mode of Automation (2029)

Figure 10 Global Industrial Automation Sensors Market Size, by End User (2022 Vs. 2029)

Figure 11 Global Industrial Automation Sensors Market Size, by Geography (2022)

Figure 12 Market Dynamics

Figure 13 Global Industrial Automation Sensors Market Size, by Sensor Type, 2022 Vs. 2029 (USD Million)

Figure 14 Global Industrial Automation Sensors Market Size, by Type, 2022 Vs. 2029 (USD Million)

Figure 15 Global Industrial Automation Sensors Market Size, by Mode of Automation, 2022 VS. 2029 (USD Million)

Figure 16 Global Industrial Automation Sensors Market Size, by End-User, 2022 Vs. 2029 (USD Million)

Figure 17 Global Industrial Automation Sensors Market Size, by Region, 2022 Vs 2029 (USD Million)

Figure 18 Key Growth Strategies Adopted by Leading Market Players (2019–2022)

Figure 19 Market Share Analysis: Global Industrial Automation Sensors Market (2021)

Figure 20 Amphenol Corporation: Financial Overview (2021)

Figure 21 Honeywell International Inc.: Financial Overview (2021)

Figure 22 Infineon Technologies AG: Financial Overview (2021)

Figure 23 Renesas Electronics Corporation: Financial Overview (2021)

Figure 24 Rockwell Automation, Inc.: Financial Overview (2021)

Figure 25 Siemens AG: Financial Overview (2021)

Figure 26 STMicroelectronics International N.V.: Financial Overview (2021)

Figure 27 Texas Instruments Incorporated: Financial Overview (2021)

Figure 28 ABB Ltd: Financial Overview (2021)

Figure 29 Analog Devices, Inc.: Financial Overview (2021)

Figure 30 TE Connectivity Ltd.: Financial Overview (2021)

Figure 31 Robert Bosch GmbH: Financial Overview (2021)

Figure 32 NXP Semiconductors N.V.: Financial Overview, (2021)

Figure 33 Sensirion Holding AG: Financial Overview, (2021)

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