

Proximity Sensor Market by Technology (Inductive, Capacitive, Magnetic, Photoelectric/Optical, Ultrasonic), Product Type (Fixed distance, Adjustable distance), Range, Output, End-user Industry and Region - Global Forecast to 2030

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Report description:

The proximity sensor market is projected to grow from USD 4.3 billion in 2024 and is projected to reach USD 6.6 billion by 2030; it is expected to grow at a CAGR of 7.5% from 2024 to 2030 by The increasing adoption of non-contact sensors, expanding market of smart home devices.

"Inductive technology segment to hold the largest share during the forecast period."

Due to solid-state technology, the inductive sensor is highly resistant to industrial environments, including dust, dirt, moisture, and extreme temperatures. That makes the devices especially appropriate for manufacturing plants and assembly lines where reliability is of prime concern. These sensors shall find applications in various industrial automation and automotive manufacturing. In the field of robotics, they realize position detection so that a robotic arm will move to the exact spot time and again to conduct a task. They are also widely used to count and sort parts on moving conveyor belts, increasing productivity. "In the market for the product type segment, fixed distance is likely to have the largest share over the forecast period."

"Market for Fixed Distance Product Type segment is projected to hold for the largest share during the forecast timeline."

Fixed-distance proximity sensors are the modern electronic development designed to determine whether an object exists or not within a range from it without touching it. Their working technologies include ultrasonic, infrared sensing, and capacitive sensors, all of which work together in recognizing an object without touching it and have applications in industrial automation, automotive, and consumer electronics. The prime intention of fixed-distance proximity sensors is to measure distance accurately, wherein automation systems can make decisions instantly on proximity to any object.

"Market for Up to <10 mm segment holds for largest market share during the forecast period."

Companies are continuously innovating proximity sensors with less range, which is expected to boost the demand for proximity

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sensors, especially in the booming market of wearable devices and consumer electronics. The ability to seamlessly integrate advanced functionality into increasingly smaller devices aligns perfectly with current trends toward miniaturization and enhanced user convenience. Consequently, manufacturers will be compelled to adopt these sensors to meet consumer expectations for more innovative, more responsive products, accelerating the overall growth of the proximity sensor market.

"The Analog segment holds the largest share during the forecast period."

"The analog segment is likely to hold the biggest market share during the forecast period."

These proximity sensors are analog and, hence, of great importance to most industries because they provide a continuous signal regarding changes in distance or proximity between the sensor and a target object. They are primarily applied in industries that need accurate and timely data from monitoring activities, such as the auto-manufacturing and aerospace industries, including industrial automation. Key players operating in the analog proximity sensor market include Pepperl+Fuchs, OMRON Corporation, and SICK AG, which are significant players owing to their robust product portfolio and continuous technology advancement.

"Market for Automotive segment is projected to hold the largest share during the forecast timeline."

Proximity sensors are increasingly implemented as core devices in the automotive industry toward developing vehicle function and security. These sensors do not have to make physical contact. They are among the vision-sensing technologies, forming core advanced driver-assistance systems, including parking assistance, blind-spot detection, collision avoidance, and automated braking. They provide real-time data enabling drivers to negotiate their way around safely and efficiently with reduced chances of accidents. In this line of requirement, the precision and reliability of such sensors are essential because autonomous driving technologies have to depend on accurate environmental perception.

"Asia Pacific is expected to have the second-highest CAGR during the forecast period."

While Asia-Pacific has taken the lead in global automotive production, Japan, South Korea, China, and India have dominated the Asian region. Proximity sensors are said to be the heart of all applications, from ADAS and parking assistance to collision avoidance systems, according to modern automotive markets. The growing acceptance of electric vehicles in countries like China and Japan boosts the demand for sensors utilized in battery management and safety features. In 2023, China accounted for 57 percent of the world's EV sales, according to the East Asia Forum. By 2025, this will mean Chinese EV makers are on course for as many as 36 million EVs each year, making it highly important for the automotive sensor market's current and short-term future states. Governments across the Asia Pacific are investing vastly in innovative city initiatives to improve the quality and sustainability of urban life. Proximity sensors are applied in many smart infrastructures, such as those in traffic control, environmental observation, and automated light management. For instance, IoT technologies and sensor networks are integrated in cities such as Singapore and Seoul to enhance and optimize public safety and resource use. Such projects developed a huge demand for proximity sensors in the region.

Extensive primary interviews were conducted with key industry experts in the proximity sensor market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The break-up of primary participants for the report has been shown below: The break-up of the profile of primary participants in the proximity sensor market:

- By Company Type: Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%
- By Designation: C Level - 45%, Director Level - 35%, Others-20%
- By Region: North America - 40%, Europe - 18%, Asia Pacific - 35%, ROW- 7%

The report profiles key players in the proximity sensor market and analyzes their respective market rankings. Prominent players profiled in this report are OMRON Corporation (Japan), KEYENCE CORPORATION (Japan), Panasonic Corporation (Japan), SICK AG (Germany), STMicroelectronics (Switzerland), Rockwell Automation (US), Delta Electronics, Inc. (Taiwan), Honeywell International Inc. (US), Broadcom (US), Schneider Electric (France), ZF Friedrichshafen AG (Germany), Balluff Automation India Pvt. Ltd. (India), Pepperl+Fuchs SE (Germany), Baumer (Switzerland), Banner Engineering Corp. (US), among others.

Apart from this, Autonics Corporation (South Korea), ifm electronic gmbh (Germany), Leuze electronic Pvt. Ltd. (Germany), Hans Turck GmbH & Co. KG (Germany), Fargo Controls Inc. (New Jersey), TMSS France (France), Migration Corp. (Australia), Infinite Electronics International, Inc. (US), Senstronic (France), HTMSensors (US), are among a few emerging companies in the proximity sensor market.

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Research Coverage: This research report categorizes the proximity sensor market based on technology, Product Type, Range, Output, End-use Industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the proximity sensor market and forecasts the same till 2030. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the proximity sensor ecosystem.

Key Benefits of Buying the Report The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall proximity sensor market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (rising governments and regulatory bodies mandating the inclusion of ADAS features in vehicles; the expanding integration of proximity sensors into medical devices such as wireless monitors and wearable sensors) influencing the growth of the proximity sensor market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Proximity Sensor market.
- Market Development: Comprehensive information about lucrative markets - the report analyzes the proximity sensor market across varied regions
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the proximity sensor market
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like OMRON Corporation (Japan), KEYENCE CORPORATION (Japan), Panasonic Corporation (Japan), SICK AG (Germany), STMicroelectronics (Switzerland), among others in the proximity sensor market.

Table of Contents:

1□INTRODUCTION□	24
1.1□STUDY OBJECTIVES□	24
1.2□MARKET DEFINITION□	24
1.3□STUDY SCOPE□	25
1.3.1□MARKET COVERED□	25
1.3.2□INCLUSIONS AND EXCLUSIONS□	26
1.3.3□YEARS CONSIDERED□	26
1.4□CURRENCY CONSIDERED□	27
1.5□UNITS CONSIDERED□	27
1.6□LIMITATIONS□	27
1.7□STAKEHOLDERS□	27
1.8□SUMMARY OF CHANGES□	28
2□RESEARCH METHODOLOGY□	29
2.1□RESEARCH DATA□	29
2.1.1□SECONDARY DATA□	30
2.1.1.1□List of key secondary sources□	31
2.1.1.2□Key data from secondary sources□	31
2.1.2□PRIMARY DATA□	32
2.1.2.1□List of primary interview participants□	32
2.1.2.2□Key data from primary sources□	33
2.1.2.3□Key industry insights□	33
2.1.2.4□Breakdown of primaries□	34
2.1.3□SECONDARY AND PRIMARY RESEARCH□	35

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2.2	MARKET SIZE ESTIMATION METHODOLOGY	36
2.2.1	BOTTOM-UP APPROACH	37
2.2.1.1	Approach to arrive at market size using bottom-up analysis (demand side)	37
2.2.2	TOP-DOWN APPROACH	38
2.2.2.1	Approach to arrive at market size using top-down analysis (supply side)	38
2.3	MARKET BREAKDOWN AND DATA TRIANGULATION	40
2.4	RESEARCH ASSUMPTIONS	41
2.5	RESEARCH LIMITATIONS	41
2.6	RISK ANALYSIS	42
3	EXECUTIVE SUMMARY	43
?		
4	PREMIUM INSIGHTS	48
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN PROXIMITY SENSOR MARKET	48
4.2	PROXIMITY SENSOR MARKET, BY TECHNOLOGY	48
4.3	PROXIMITY SENSOR MARKET, BY PRODUCT TYPE	49
4.4	PROXIMITY SENSOR MARKET, BY RANGE	49
4.5	PROXIMITY SENSOR MARKET, BY OUTPUT	50
4.6	PROXIMITY SENSOR MARKET, BY END-USE INDUSTRY	50
4.7	PROXIMITY SENSOR MARKET, BY COUNTRY	51
5	MARKET OVERVIEW	52
5.1	INTRODUCTION	52
5.2	MARKET DYNAMICS	52
5.2.1	DRIVERS	53
5.2.1.1	Increasing adoption of Industry 4.0 technologies	53
5.2.1.2	Growing preference for non-contact sensors	54
5.2.1.3	Mounting demand for smart home devices and consumer electronics	55
5.2.1.4	Increasing adoption of ADAS and vehicle safety systems	55
5.2.2	RESTRAINTS	57
5.2.2.1	Limited sensing range	57
5.2.2.2	High price sensitivity in emerging economies	58
5.2.3	OPPORTUNITIES	59
5.2.3.1	Surging adoption of industrial robots	59
5.2.3.2	Increasing use in industrial applications due to technological advancements	60
5.2.3.3	Growing trend of sensor miniaturization	61
5.2.4	CHALLENGES	62
5.2.4.1	Availability of alternative sensing technologies	62
5.2.4.2	Cybersecurity risks associated with IoT sensors	63
5.3	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	64
5.4	PRICING ANALYSIS	65
5.4.1	AVERAGE SELLING PRICE TREND OF BY KEY PLAYERS, BY TECHNOLOGY	65
5.4.2	AVERAGE SELLING PRICE TREND, BY TECHNOLOGY	66
5.4.3	INDICATIVE PRICING TREND, BY REGION	67
5.5	VALUE CHAIN ANALYSIS	68
5.6	ECOSYSTEM ANALYSIS	71

5.7	INVESTMENT AND FUNDING SCENARIO	73
5.8	IMPACT OF ARTIFICIAL INTELLIGENCE/GEN AI ON PROXIMITY SENSOR MARKET	74
5.9	TECHNOLOGY ANALYSIS	75
5.9.1	KEY TECHNOLOGIES	75
5.9.1.1	Microcontrollers	75
5.9.1.2	Miniaturized sensors	75
?		
5.9.2	COMPLEMENTARY TECHNOLOGIES	76
5.9.2.1	Sensor fusion	76
5.9.2.2	Micro-electro-mechanical systems (MEMS)	76
5.9.3	ADJACENT TECHNOLOGIES	77
5.9.3.1	Artificial intelligence and Internet of Things	77
5.9.3.2	Augmented reality (AR) and virtual reality (VR)	77
5.10	PATENT ANALYSIS	78
5.11	TRADE ANALYSIS	83
5.11.1	IMPORT SCENARIO (HS CODE 853690)	83
5.11.2	EXPORT SCENARIO (HS CODE 853690)	84
5.12	KEY CONFERENCES AND EVENTS, 2024-2025	84
5.13	CASE STUDY ANALYSIS	86
5.13.1	SEED PROCESSING FACILITY DEPLOYS IPH INDUCTIVE PROXIMITY SENSORS TO IMPROVE VALVE POSITION DETECTION	86
5.13.2	SCANDINAVIAN WILDLIFE RESEARCHERS ADOPT GPS COLLARS WITH PROXIMITY SENSORS TO GATHER MULTISPECIES INTERACTION DATA	87
5.13.3	RECREATIONAL VEHICLE MANUFACTURERS DEPLOY PROXIMITY SENSORS TO ENSURE OPERATIONAL SAFETY	87
5.13.4	INDUSTRIAL PIPE MILL UTILIZES INDUCTIVE PROXIMITY SENSORS FOR RELIABLE DETECTION OF HOLLOW PIPES	88
5.13.5	ADVANCED ROBOTICS INTEGRATES PROXIMITY SENSORS FOR PRECISE OBJECT DETECTION AND COLLISION AVOIDANCE	89
5.14	REGULATORY LANDSCAPE	89
5.14.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	90
5.14.2	STANDARDS	93
5.15	PORTER'S FIVE FORCES ANALYSIS	95
5.15.1	THREAT OF NEW ENTRANTS	96
5.15.2	THREAT OF SUBSTITUTES	96
5.15.3	BARGAINING POWER OF SUPPLIERS	96
5.15.4	BARGAINING POWER OF BUYERS	96
5.15.5	INTENSITY OF COMPETITIVE RIVALRY	96
5.16	KEY STAKEHOLDERS AND BUYING CRITERIA	97
5.16.1	KEY STAKEHOLDERS IN BUYING PROCESS	97
5.16.2	BUYING CRITERIA	98
6	PROXIMITY SENSOR MARKET, BY TECHNOLOGY	99
6.1	INTRODUCTION	100
6.2	INDUCTIVE	103
6.2.1	RESISTANCE TO HARSH INDUSTRIAL ENVIRONMENTS TO AUGMENT SEGMENTAL GROWTH	103
6.3	CAPACITIVE	106
6.3.1	COST-EFFECTIVENESS AND VERSATILITY TO CONTRIBUTE TO SEGMENTAL GROWTH	106

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6.4	MAGNETIC	109
6.4.1	STRONG FOCUS ON ENHANCING ELECTRIC VEHICLE SAFETY TO FUEL SEGMENTAL GROWTH	109
6.5	PHOTOELECTRIC/OPTICAL	111
6.5.1	LONG SENSING DISTANCE AND HIGH RESPONSE SPEED TO ACCELERATE SEGMENTAL GROWTH	111
6.6	ULTRASONIC	114
6.6.1	GROWING DEMAND FOR AUTONOMOUS VEHICLES TO FOSTER SEGMENTAL GROWTH	114
6.7	OTHER TECHNOLOGIES	117
7	PROXIMITY SENSOR MARKET, BY PRODUCT TYPE	120
7.1	INTRODUCTION	121
7.2	FIXED DISTANCE	122
7.2.1	RISING ADOPTION IN MANUFACTURING PLANTS TO ENSURE EFFICIENT MATERIAL HANDLING TO BOOST SEGMENTAL GROWTH	122
7.3	ADJUSTABLE DISTANCE	123
7.3.1	INCREASING DEPLOYMENT IN ROBOT ASSEMBLY LINES TO OPTIMIZE PRODUCTION EFFICIENCY TO FUEL SEGMENTAL GROWTH	123
8	PROXIMITY SENSOR MARKET, BY RANGE	126
8.1	INTRODUCTION	127
8.2	<10 MM	128
8.2.1	RISING ADOPTION OF WEARABLE ELECTRONICS AND KEYLESS ENTRY SYSTEMS TO BOOST SEGMENTAL GROWTH	128
8.3	10-20 MM	129
8.3.1	INCREASING IMPLEMENTATION OF ADVANCED DRIVER-ASSISTANCE SYSTEMS AND SMART VEHICLE TECHNOLOGIES TO DRIVE MARKET	129
8.4	21-40 MM	131
8.4.1	RISING EMPHASIS ON INDUSTRIAL AUTOMATION TO CONTRIBUTE TO SEGMENTAL GROWTH	131
8.5	>40 MM	132
8.5.1	SURGING DEPLOYMENT OF INDUSTRY 4.0 TECHNOLOGIES TO AUGMENT SEGMENTAL GROWTH	132
9	PROXIMITY SENSOR MARKET, BY OUTPUT	134
9.1	INTRODUCTION	135
9.2	ANALOG	136
9.2.1	REQUIREMENT FOR PRECISE AND REAL-TIME MONITORING IN INDUSTRIAL FACILITIES TO FUEL SEGMENTAL GROWTH	136
9.3	DIGITAL	137
9.3.1	PROLIFERATION OF IOT DEVICES AND INDUSTRIAL AUTOMATION TO BOLSTER SEGMENTAL GROWTH	137
	?	
10	PROXIMITY SENSOR MARKET, BY END-USE INDUSTRY	138
10.1	INTRODUCTION	139
10.2	AEROSPACE & DEFENSE	141
10.2.1	RISING EMPHASIS ON SAFETY, EFFICIENCY, AND AUTOMATION TO FOSTER SEGMENTAL GROWTH	141
10.3	AUTOMOTIVE	143
10.3.1	MOUNTING DEMAND FOR AUTONOMOUS VEHICLES TO CONTRIBUTE TO SEGMENTAL GROWTH	143
10.4	PHARMACEUTICALS	145
10.4.1	INCREASING FOCUS ON ENSURING QUALITY COMPLIANCE TO	

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BOOST SEGMENTAL GROWTH145

10.5MANUFACTURING147

10.5.1GROWING TREND TOWARD SMART FACTORIES TO ACCELERATE SEGMENTAL GROWTH147

10.6BUILDING AUTOMATION149

10.6.1RISING CONCERN ABOUT UNAUTHORIZED ACCESS TO BOOST SEGMENTAL GROWTH149

10.7CONSUMER ELECTRONICS151

10.7.1MOUNTING DEMAND FOR IOT-CONNECTED DEVICES TO FOSTER SEGMENTAL GROWTH151

10.8OTHER END-USE INDUSTRIES153

11PROXIMITY SENSOR MARKET, BY REGION156

11.1INTRODUCTION157

11.2NORTH AMERICA158

11.2.1US162

11.2.1.1Increasing focus on smart city initiatives to augment market growth162

11.2.2CANADA163

11.2.2.1Mounting demand for vehicles equipped with advanced technologies to boost market growth163

11.2.3MEXICO163

11.2.3.1Rising export of vehicle parts and manufacturing facility expansion to fuel market growth163

11.3EUROPE164

11.3.1UK167

11.3.1.1Escalating adoption of electric vehicles to meet net-zero emission targets to drive market167

11.3.2GERMANY168

11.3.2.1Increasing allocation of funds to support clean transportation to augment market growth168

11.3.3ITALY169

11.3.3.1Rising investment in next-generation vehicles with safety features to boost market growth169

11.3.4REST OF EUROPE169

?

11.4ASIA PACIFIC170

11.4.1CHINA173

11.4.1.1Rising deployment of advanced technologies in manufacturing sector to bolster market growth173

11.4.2SOUTH KOREA174

11.4.2.1Increasing production of consumer electronics to contribute to market growth174

11.4.3INDIA175

11.4.3.1Rising initiatives to promote smart cities to accelerate market growth175

11.4.4REST OF ASIA PACIFIC176

11.5ROW176

11.5.1MIDDLE EAST179

11.5.1.1Increasing smart city initiatives to contribute to market growth179

11.5.1.2GCC countries180

11.5.1.3Rest of Middle East181

11.5.2AFRICA181

11.5.2.1Rising deployment of advanced technologies to improve agricultural productivity to fuel market growth181

11.5.3SOUTH AMERICA182

11.5.3.1Burgeoning demand for electric vehicles to foster market growth182

12COMPETITIVE LANDSCAPE183

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12.1	OVERVIEW	183
12.2	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2020-2024	183
12.3	REVENUE ANALYSIS, 2019-2023	186
12.4	MARKET SHARE ANALYSIS, 2023	186
12.5	COMPANY VALUATION AND FINANCIAL METRICS	190
12.6	BRAND/PRODUCT COMPARISON	191
12.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	192
12.7.1	STARS	192
12.7.2	EMERGING LEADERS	192
12.7.3	PERVASIVE PLAYERS	192
12.7.4	PARTICIPANTS	192
12.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	194
12.7.5.1	Company footprint	194
12.7.5.2	Technology footprint	194
12.7.5.3	Product type footprint	195
12.7.5.4	Range footprint	196
12.7.5.5	Output footprint	197
12.7.5.6	End-use industry footprint	197
12.7.5.7	Region footprint	198
?		
12.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	199
12.8.1	PROGRESSIVE COMPANIES	199
12.8.2	RESPONSIVE COMPANIES	199
12.8.3	DYNAMIC COMPANIES	199
12.8.4	STARTING BLOCKS	199
12.8.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	200
12.8.5.1	Detailed list of key startups/SMEs	200
12.8.5.2	Competitive benchmarking of key startups/SMEs	201
12.9	COMPETITIVE SCENARIO AND TRENDS	203
12.9.1	PRODUCT LAUNCHES	203
12.9.2	DEALS	204
13	COMPANY PROFILES	206
13.1	KEY PLAYERS	206
13.1.1	OMRON CORPORATION	206
13.1.1.1	Business overview	206
13.1.1.2	Products/Solutions/Services offered	207
13.1.1.3	Recent developments	213
13.1.1.3.1	Product launches	213
13.1.1.3.2	Deals	213
13.1.1.4	MnM view	214
13.1.1.4.1	Key strengths/Right to win	214
13.1.1.4.2	Strategic choices	214
13.1.1.4.3	Weaknesses/Competitive threats	214
13.1.2	KEYENCE CORPORATION	215
13.1.2.1	Business overview	215
13.1.2.2	Products/Solutions/Services offered	216
13.1.2.3	MnM view	218

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- 13.1.2.3.1□Key strengths/Right to win□218
- 13.1.2.3.2□Strategic choices□218
- 13.1.2.3.3□Weaknesses/Competitive threats□218
- 13.1.3□PANASONIC CORPORATION□219
- 13.1.3.1□Business overview□219
- 13.1.3.2□Products/Solutions/Services offered□220
- 13.1.3.3□Recent developments□222
- 13.1.3.3.1□Deals□222
- 13.1.3.4□MnM view□223
- 13.1.3.4.1□Key strengths/Right to win□223
- 13.1.3.4.2□Strategic choices□223
- 13.1.3.4.3□Weaknesses/Competitive threats□223
- ?
- 13.1.4□SICK AG□224
- 13.1.4.1□Business overview□224
- 13.1.4.2□Products/Solutions/Services offered□225
- 13.1.4.3□Recent developments□230
- 13.1.4.3.1□Product launches□230
- 13.1.4.3.2□Deals□231
- 13.1.4.4□MnM view□231
- 13.1.4.4.1□Key strengths/Right to win□231
- 13.1.4.4.2□Strategic choices□231
- 13.1.4.4.3□Weaknesses/Competitive threats□231
- 13.1.5□STMICROELECTRONICS□232
- 13.1.5.1□Business overview□232
- 13.1.5.2□Products/Solutions/Services offered□233
- 13.1.5.3□Recent developments□234
- 13.1.5.3.1□Product launches□234
- 13.1.5.3.2□Deals□235
- 13.1.5.3.3□Others□235
- 13.1.5.4□MnM view□236
- 13.1.5.4.1□Key strengths/Right to win□236
- 13.1.5.4.2□Strategic choices□236
- 13.1.5.4.3□Weaknesses/Competitive threats□236
- 13.1.6□ROCKWELL AUTOMATION□237
- 13.1.6.1□Business overview□237
- 13.1.6.2□Products/Solutions/Services offered□238
- 13.1.6.3□Recent developments□240
- 13.1.6.3.1□Deals□240
- 13.1.6.3.2□Expansions□240
- 13.1.7□DELTA ELECTRONICS, INC.□241
- 13.1.7.1□Business overview□241
- 13.1.7.2□Products/Solutions/Services offered□242
- 13.1.7.3□Recent developments□243
- 13.1.7.3.1□Others□243
- 13.1.8□HONEYWELL INTERNATIONAL INC.□244
- 13.1.8.1□Business overview□244

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13.1.8.2	Products/Solutions/Services offered	245
13.1.8.3	Recent developments	246
13.1.8.3.1	Deals	246
13.1.8.3.2	Others	247
13.1.9	BROADCOM	248
13.1.9.1	Business overview	248
13.1.9.2	Products/Solutions/Services offered	249
13.1.9.3	Recent developments	251
13.1.9.3.1	Deals	251
13.1.9.3.2	Others	251
13.1.10	SCHNEIDER ELECTRIC	252
13.1.10.1	Business overview	252
13.1.10.2	Products/Solutions/Services offered	253
13.1.10.3	Recent developments	254
13.1.10.3.1	Deals	254
13.1.10.3.2	Others	255
13.1.11	ZF FRIEDRICHSHAFEN AG	256
13.1.11.1	Business overview	256
13.1.11.2	Products/Solutions/Services offered	257
13.1.11.3	Recent developments	259
13.1.11.3.1	Deals	259
13.1.12	BALLUFF AUTOMATION INDIA PVT. LTD.	260
13.1.12.1	Business overview	260
13.1.12.2	Products/Solutions/Services offered	261
13.1.13	PEPPERL+FUCHS SE	265
13.1.13.1	Business overview	265
13.1.13.2	Products/Solutions/Services offered	266
13.1.13.3	Recent developments	266
13.1.13.3.1	Deals	266
13.1.13.3.2	Others	267
13.1.14	BAUMER	268
13.1.14.1	Business overview	268
13.1.14.2	Products/Solutions/Services offered	269
13.1.14.3	Recent developments	271
13.1.14.3.1	Others	271
13.1.15	BANNER ENGINEERING CORP.	272
13.1.15.1	Business overview	272
13.1.15.2	Products/Solutions/Services offered	272
13.2	OTHER PLAYERS	277
13.2.1	AUTONICS CORPORATION	277
13.2.2	IFM ELECTRONIC GMBH	278
13.2.3	LEUZE ELECTRONIC PVT. LTD.	279
13.2.4	HANS TURCK GMBH & CO. KG	280
13.2.5	FARGO CONTROLS INC.	281
13.2.6	TMSS FRANCE	282
13.2.7	MIGRATION CORP.	283
13.2.8	INFINITE ELECTRONICS INTERNATIONAL, INC.	284

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13.2.9	SENSTRONIC	285
13.2.10	HTMSENSORS	286
14	APPENDIX	287
14.1	INSIGHTS FROM INDUSTRY EXPERTS	287
14.2	DISCUSSION GUIDE	288
14.3	KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL	292
14.4	CUSTOMIZATION OPTIONS	294
14.5	RELATED REPORTS	294
14.6	AUTHOR DETAILS	295

Proximity Sensor Market by Technology (Inductive, Capacitive, Magnetic, Photoelectric/Optical, Ultrasonic), Product Type (Fixed distance, Adjustable distance), Range, Output, End-user Industry and Region - Global Forecast to 2030

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