

Global Industrial Sensors Market – Sensor Types, Functionality Types and End-Use Sectors

“The report reviews, analyzes and projects the global market for Industrial Sensors for the period 2020-2029. The market for Industrial Sensor types studied in this report includes Accelerometers, Flow Sensors, Force Sensors, Gas Sensors, Humidity Sensors, Image Sensors, Level Sensors, Optical Sensors, Position Sensors, Pressure Sensors, Proximity Sensors, Temperature Sensors and Touch Sensors. End-use sectors studied include Aerospace & Defense, Automotive, Chemicals, Electronics, Energy & Power, IT & Telecom, Manufacturing, Mining, Oil & Gas and Pharmaceutical”

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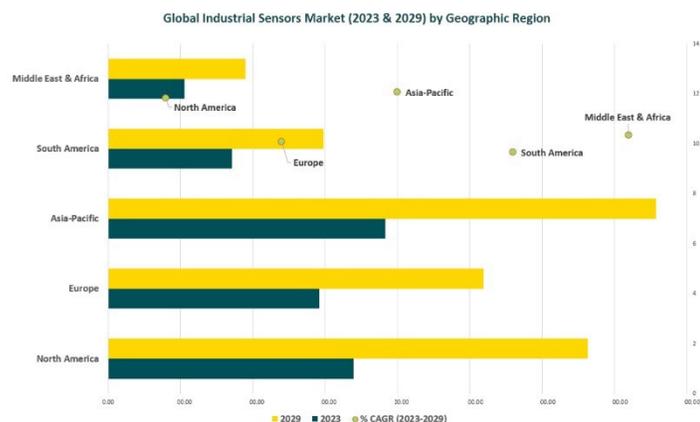
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Report Synopsis

Industrial sensors offer the capability of perceiving a physical quantity at the input point and transmitting an equivalent electrical output at the output point. Sensors, being devices that convert one form of energy into another, are considered to be transducers. In simple terms, sensors are able to detect their surroundings and transform that input into an output capable of being comprehended by a computer or a process controller. Irrespective of complexity, the role played by industrial sensors in virtually every modern manufacturing process is highly significant, owing to which it is inconceivable to imagine an automated system without sensors.

A shift towards the concept of Industry 4.0 and wider automation protocols has propelled the use of sensors in various manufacturing operations, as these devices enable in maximizing efficiency of operations and also increasing production uptime. With growth in demand for industrial automation, a subsequent rise in sensor deployment across various stages of manufacturing and product control has become vital.

North America, Europe and Asia-Pacific account for nearly 80% of the global market for Industrial Sensors based on type and functionality. Among these, Asia-Pacific is likely to emerge as the fastest growing market, with an expected CAGR of over 12% during the analysis period. This can be attributed to increasing technological advancements and rapid industrialization, plus to fact that the region has for long been the hub of electronics manufacturing, and the use of sensors in this area is widespread.



Source: Industry Experts, Inc. <https://industry-experts.com>

Research Findings & Coverage

- Global market for Industrial Sensors is analyzed in this report with respect to sensor types, functionality types, end-use industries, major geographic regions and key countries
- The market share analysis covered for Industrial Sensors based on the segmentation mentioned above; current market size estimation, revenue projections for the analysis period provided through 2029
- The report includes an extensive analysis of the market for more than 10 sensor types and 10 end-use industries with market share illustrations at regular intervals along the study period
- The study discusses major growth trends, R&D, technology updates and emerging applications of Industrial Sensors that influence the market growth
- Key business trends focusing on product innovations/developments, capacity expansions, M&As, JVs and other recent industry developments by the major players
- The report includes 242 data tables covering market numbers by segment and regions with graphical representation for each table
- Brief business profiles of major companies covered – 34
- The industry guide includes the contact details for 321 companies

Product Outline

The market for types of Industrial Sensors analyzed in this report including:

- Accelerometers
- Flow Sensors
- Force Sensors
- Gas Sensors
- Humidity Sensors
- Image Sensors
- Level Sensors
- Optical Sensors
- Position Sensors
- Pressure Sensors
- Proximity Sensors
- Temperature Sensors
- Touch Sensors

Functionality types of Industrial Sensors market analyzed in this report consist the following:

- Contact Sensors
- Contactless Sensors

The report analyzes the market for end-use industries of Industrial Sensors comprises:

- Aerospace & Defense
- Automotive
- Chemical
- Electronics
- Energy & Power
- IT & Telecom
- Manufacturing
- Mining
- Oil & Gas
- Pharmaceutical

Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Engineering Plastics market for the period 2020-2029 in terms of value in US\$ and the compound annual growth rates (CAGRs) projected from 2023 through 2029

Geographic Coverage

- North America** (The United States, Canada and Mexico)
- Europe** (France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe)
- Asia-Pacific** (China, India, Japan, South Korea and Rest of Asia-Pacific)
- South America** (Argentina, Brazil and Rest of South America)
- Middle East & African**

SAMPLE COMPANY PROFILE

BOSCH SENSORTECH GMBH (GERMANY)

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Business Overview

Established in 2005, and headquartered in Germany, Bosch Sensortech GmbH is an operating subsidiary of Robert Bosch GmbH. Primarily engaged in the development, production, and sales of microelectromechanical systems (MEMS) sensors and solutions, the company stands at the forefront of MEMS technology. Bosch Sensortec is a globally leading innovator of sensing solutions based on MEMS and catering wholly to consumer electronics. The company's products finds applications in Smartphones & tablets, Hearables, Wearables, Drones, Robots, AR & VR, Smart home, Gaming & toys, Industrial applications. In addition to the extensive portfolio comprising motion sensors such as 3-axis accelerometers, gyroscopes, magnetometers, integrated 6- and 9-axis sensors, smart sensors, and environmental sensors for measuring barometric pressure, temperature, humidity and gases, Bosch offers optical microsystems and a wide range of software and tools.

Products

Bosch Sensortec offers MEMS-based sensors across several categories including Motion sensors such as Accelerometers, Magnetometers, and Inertial measurement units (IMUs); Environmental sensors such as Pressure sensors, Humidity sensors, Gas sensors, and Particulate matter sensor; Smart sensor systems, including Sensor nodes, Programmable sensor systems, and AI sensor systems; Display solutions consisting Bosch Smartglasses Light Drive system; and Acoustic microsystems comprising MEMS microspeakers.

.....[more](#)

SAMPLE TABLE/CHART

Glance at 2020, 2023 and 2029 Global Industrial Sensors Market Share (%) by Type – Accelerometers, Flow Sensors, Force Sensors, Gas Sensors, Humidity Sensors, Image Sensors, Level Sensors, Optical Sensors, Position Sensors, Pressure Sensors, Proximity Sensors, Temperature Sensors and Touch Sensors



Global Flow Sensors Market Analysis (2020-2029) by Geographic Region – North America, Europe, Asia-Pacific, South America and Middle East & Africa in USD Million



KEY PLAYERS PROFILED

- ABB Limited (Switzerland)
- AMETEK, Inc. (United States)
- Amphenol Corporation (United States)
- ams-OSRAM AG (Austria)
- FineTek Co., Ltd. (Taiwan)
- Azbil Corporation (Japan)
- Balluff GmbH (Germany)
- Baumer Holding AG (Switzerland)
- Bosch Sensortech GmbH (Germany)
- CTS Corporation (United States)
- Denso Corporation (Japan)
- Dwyer Instruments LLC (United States)
- E+E Elektronik Ges.m.b.H (Austria)
- Endress+Hauser Group Services AG (Switzerland)
- Fortive Corporation (United States)
- Gefran S.p.A. (Italy)
- Hans Turck GmbH & Co. KG (Germany)

.....[more](#)

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE..... 1

1. INTRODUCTION 1

1.1 Product Outline.....6

1.1.1 AN OVERVIEW OF INDUSTRIAL SENSORS6

1.1.1.1 How Sensor Technology Evolved6

1.1.1.2 Functions & Types of Industrial Sensors.....6

1.1.1.3 Sensor Sensitivity7

1.1.1.4 Industrial Sensors in Manufacturing8

1.1.2 MAJOR TYPES OF INDUSTRIAL SENSORS8

1.1.2.1 Accelerometers8

1.1.2.1.1 Major types of Industrial Accelerometer Sensors9

1.1.2.1.2 Key Applications of Accelerometers.....9

1.1.2.2 Flow Sensors9

1.1.2.2.1 Types of Flow Sensors10

1.1.2.3 Force Sensors11

1.1.2.3.1 Principle of Operation11

1.1.2.3.2 Factors Considered in Choosing a Force Sensor11

1.1.2.3.3 Types of Force Sensors.....11

1.1.2.3.4 Applications of Force Sensors12

1.1.2.4 Gas Sensors13

1.1.2.4.1 Classification of Gas Sensors13

1.1.2.5 Humidity Sensors14

1.1.2.5.1 Relative Humidity (RH) Sensors.....14

1.1.2.5.2 Absolute Humidity Sensors15

1.1.2.5.3 Thermal Humidity Sensors15

1.1.2.5.4 Dew Point of a Humidity Sensor15

1.1.2.5.5 Applications of Humidity Sensors15

1.1.2.6 Image Sensors16

1.1.2.6.1 CCD Image Sensors.....16

1.1.2.6.2 Complementary Metal-Oxide-Semiconductor (CMOS) Image Sensors.....18

1.1.2.7 Level Sensors.....18

1.1.2.7.1 Level Sensor Categorization Based on Sensing Point.....19

1.1.2.7.2 Level Measurement Types19

1.1.2.8 Optical Sensors.....19

1.1.2.8.1 Optical Sensor Working Principle.....20

1.1.2.8.2 Types of Optical Sensors20

1.1.2.8.3 Applications for Optical Sensors in Industrial Settings21

1.1.2.9 Position Sensors22

1.1.2.9.1 Position Sensors Types.....22

1.1.2.9.2 Major Applications of Position Sensors.....22

1.1.2.10 Pressure Sensors..... 23

1.1.2.10.1 Working of Pressure Sensors 23

1.1.2.10.2 Pressure Sensor Types 24

1.1.2.11 Proximity Sensors 24

1.1.2.11.1 Proximity Sensors & Proximity Switches..... 25

1.1.2.11.2 Attributes of Proximity Sensors 25

1.1.2.11.3 Proximity Sensor Types..... 25

1.1.2.11.4 Applications of Proximity Sensors.. 25

1.1.2.12 Temperature Sensors..... 26

1.1.2.12.1 Working Principle of Temperature Working Sensors 27

1.1.2.12.2 Temperature Sensor Types 27

1.1.2.13 Touch Sensors..... 27

1.1.2.13.1 Working Principle of Touch Sensors 28

1.1.2.13.2 Touch Sensor Types 28

1.1.3 INDUSTRIAL SENSORS BY FUNCTIONALITY TYPE 28

1.1.3.1 Contact Sensors 28

1.1.3.2 Noncontact/Contactless Sensors 29

1.1.3.3 Contact vs. Non-Contact/Contactless Sensors 29

2. INDUSTRIAL SENSORS END-USE INDUSTRY – A MARKET SNAPSHOT..... 30

2.1 Aerospace & Defense 30

2.1.1 Classification I 31

2.1.2 Classification II 33

2.2 Automotive 34

2.3 Chemical 35

2.3.1 Flow Sensors 36

2.3.2 Gas Sensors..... 36

2.3.3 Level Sensors 37

2.3.4 Pressure Sensors..... 37

2.3.5 Temperature Sensors..... 37

2.4 Electronics..... 38

2.5 Energy & Power 40

2.5.1 Fuel Cells - Bus (Pressure) 41

2.5.1.1 Pressure Sensor for Hydrogen-Powered Vehicles 41

2.5.2 Fuel Cells - Bus (Valve) 42

2.5.3 Generator Sets (Pressure)..... 42

2.5.4 Power Generators (Level) 43

2.6 IT & Telecom..... 43

2.6.1 Connecting the World through Telecommunication and Information Technology 43

2.6.2 Sensors in Computers 44

2.6.3 Sensors in Mobile Devices 45

2.6.4 Sensors in Networks 46

2.7 Manufacturing 46

2.8 Mining 49

2.8.1 Imaging, Three-Dimensional (3D) Mapping and Ranging..... 50

2.8.2 Equipment and Machine Condition Monitoring..... 50

2.8.3 Tire Pressure and Temperature Monitoring..... 50

2.8.4 Hazardous Gas Monitoring 50

2.8.5 Mine Fire Monitoring 51

2.8.6 Tracking and Localization 51

2.8.7 Exploration 52

2.9 Oil & Gas..... 52

2.9.1 Pressure Sensors..... 53

2.9.2 Gas Sensors 55

2.9.3 Level Sensors 55

2.9.4 Position Sensors 56

2.9.5 Temperature Sensors 57

2.10 Pharmaceutical..... 57

2.10.1 Flow Meters/Sensors..... 58

2.10.1.1 Application of Flow Meters in the Pharma Industry 58

2.10.1.2 Turbine Flow Meters 58

2.10.1.3 Coriolis Flow meters 59

2.10.2 Gas Sensors 59

2.10.3 Level Sensors 61

2.10.3.1 Level Measurement indispensable in Pharma Industry 61

2.10.4 Pressure Sensors..... 61

3. KEY MARKET TRENDS62

3.1 Industry 4.0 a Watershed Moment in Sensor Technology 62

3.2 The Critical Role of Sensors in Industry 4.0 for Factory Automation 62

3.3 Internet of Things (IoT) Sensor Technology Gaining Ground 63

3.3.1 Smart Sensors as Edge Devices..... 63

3.3.2 Power Efficiency of Sensors Getting Increased for Energy Harvesting..... 64

3.3.3 Physical Sensors Being Largely Complemented by Soft & Virtual Sensors 64

3.4 Real-Time Detection of Hazardous Gases Enabled by Innovative Sensor Technology 64

3.5 Water Quality Monitoring Improved with Ultra-Sensitive Sensor Technology 65

3.6 CMOS Image Sensor Applications Enhanced with Silicon Nanowire Phototransistor Arrays 66

3.7 Demand for Humidity Nanosensors Expanding in Line with Novel Material Development67

3.8 Developments in Magnetic Gas Sensors Improve Detection Capability68

3.9 Advances in Optical Sensor Technology Bolster the Oil & Gas Sector.....70

3.10 Optical Sensing Approaches Enhance On-site Detection of Pesticides in Agricultural Foods71

4. MAJOR MARKET PLAYERS 72

4.1 ABB Limited (Switzerland).....72

4.2 AMETEK, Inc. (United States)73

4.2.1 Alphasense (United Kingdom).....73

4.3 Amphenol Corporation (United States)74

4.3.1 Amphenol Advanced Sensors (United States)75

4.4 ams-OSRAM AG (Austria)76

4.5 FineTek Co., Ltd. (Taiwan).....76

4.5.1 Aplus FineTek Sensor, Inc. (United States)77

4.6 Azbil Corporation (Japan).....78

4.7 Balluff GmbH (Germany)79

4.8 Baumer Holding AG (Switzerland).....80

4.9 Bosch Sensortech GmbH (Germany)81

4.10 CTS Corporation (United States)82

4.11 Denso Corporation (Japan)82

4.12 Dwyer Instruments LLC (United States) ..83

4.12.1 Omega Engineering, Inc. (United States)84

4.13 E+E Elektronik Ges.m.b.H (Austria)85

4.14 Endress+Hauser Group Services AG (Switzerland)86

4.15 Fortive Corporation (United States).....87

4.15.1 Anderson-Negele (United States)87

4.15.2 Gems Sensors, Inc. (United States)88

4.15.3 Setra Systems, Inc. (United States)88

4.16 Gefran S.p.A. (Italy)89

4.17 Hans Turck GmbH & Co. KG (Germany) ..90

4.18 Honeywell International, Inc.91

4.19 iFM Electronic GmbH (Germany)91

4.20 Infineon Technologies AG (Germany)92

4.21 Keyence Corporation (United States).....93

4.22 Kistler Instrumente AG (Switzerland).....93

4.23 Meggitt PLC (United Kingdom).....94

4.24 NXP Semiconductors N.V. (Netherlands)95

4.25 Panasonic Holdings Corporation (Japan).....96

4.25.1 Panasonic Industry Co., Ltd. (Japan)96

4.26 Pepperl+Fuchs SE (Germany)98

4.27 Rockwell Automation, Inc. (United States).....98

4.28 Schneider Electric SE (France).....99

4.29 Sensata Technologies, Inc. (United States).....100

4.30 SICK AG (Germany)101

4.31 Siemens AG (Germany)102

4.32 TE Connectivity Ltd. (Switzerland)103

4.32.1 First Sensor AG (Germany).....103

4.33 TDK Corporation (Japan).....104

4.34 WIKA Alexander Wiegand SE & Co. KG...105

5. KEY BUSINESS & PRODUCT TRENDS106

5.1 April 2024.....106

5.2 March 2024.....106

5.3 February 2024.....107

5.4 January 2024.....108

5.5 December 2023110

5.6 November 2023111

5.7 October 2023112

5.8 September 2023114

5.9 August 2023116

5.10 July 2023116

5.11 June 2023.....117

5.12 May 2023119

5.13 April 2023.....120

5.14 March 2023.....121

5.15 February 2023.....121

5.16 January 2023.....122

5.17 Historical.....124

6. GLOBAL MARKET OVERVIEW126

6.1 Global Industrial Sensors Market Overview by Type127

6.1.1 Industrial Sensors Type Market Overview by Global Region.....129

6.1.1.1 Accelerometers.....129

6.1.1.2 Flow Sensors131

6.1.1.3 Force Sensors.....133

6.1.1.4 Gas Sensors.....135

6.1.1.5 Humidity Sensors137

6.1.1.6 Image Sensors.....139

6.1.1.7 Level Sensors141

6.1.1.8 Optical Sensors143

6.1.1.9 Position Sensors.....145

6.1.1.10 Pressure Sensors.....147

6.1.1.11 Proximity Sensors149

6.1.1.12 Temperature Sensors.....151

6.1.1.13 Touch Sensors.....153

6.2 Global Industrial Sensors Market Overview by Functionality155

6.2.1 Industrial Sensors Functionality Type Market Overview by Global Region.....157

6.2.1.1 Contact Sensors157

6.2.1.2 Contactless Sensors159

6.3 Global Industrial Sensors Market Overview by End-Use Industry161

6.3.1 Industrial Sensors End-Use Industry Market Overview by Global Region.....163

6.3.1.1 Aerospace & Defense163

6.3.1.2 Automotive.....165

6.3.1.3 Chemical167

6.3.1.4 Electronics169

6.3.1.5 Energy & Power171

6.3.1.6 IT & Telecom.....173

6.3.1.7 Manufacturing.....175

6.3.1.8 Mining.....177

6.3.1.9 Oil & Gas179

6.3.1.10 Pharmaceutical.....181

PART B: REGIONAL MARKET PERSPECTIVE..183

Regional Market Overview185

7. NORTH AMERICA.....185

7.1 North American Industrial Sensors Market Overview by Geographic Region186

7.2 North American Industrial Sensors Market Overview by Type188

7.3 North American Industrial Sensors Market Overview by Functionality190

7.4 North American Industrial Sensors Market Overview by End-Use Industry.....192

7.5 Country-wise Analysis of North American Industrial Sensors Market194

7.5.1 THE UNITED STATES.....194

7.5.1.1 United States' Industrial Sensors Market Overview by Type195

7.5.1.2 United States' Industrial Sensors Market Overview by Functionality197

7.5.1.3 United States' Industrial Sensors Market Overview by End-Use Industry.....199

7.5.2 CANADA.....201

7.5.2.1 Canadian Industrial Sensors Market Overview by Type.....202

7.5.2.2 Canadian Industrial Sensors Market Overview by Functionality204

7.5.2.3 Canadian Industrial Sensors Market Overview by End-Use Industry206

7.5.3 MEXICO.....208

7.5.3.1 Mexican Industrial Sensors Market Overview by Type209

7.5.3.2 Mexican Industrial Sensors Market Overview by Functionality.....211

7.5.3.3 Mexican Industrial Sensors Market Overview by End-Use Industry213

8. EUROPE	215	8.5.7 REST OF EUROPE.....	266	10. SOUTH AMERICA	317
8.1 European Industrial Sensors Market Overview by Geographic Region	216	8.5.7.1 Rest of Europe Industrial Sensors Market Overview by Type.....	267	10.1 South American Industrial Sensors Market Overview by Geographic Region	318
8.2 European Industrial Sensors Market Overview by Type	218	8.5.7.2 Rest of Europe Industrial Sensors Market Overview by Functionality.....	269	10.2 South American Industrial Sensors Market Overview by Type	320
8.3 European Industrial Sensors Market Overview by Functionality	220	8.5.7.3 Rest of Europe Industrial Sensors Market Overview by End-Use Industry.....	271	10.3 South American Industrial Sensors Market Overview by Functionality	322
8.4 European Industrial Sensors Market Overview by End-Use Industry.....	222	9. ASIA-PACIFIC	273	10.4 South American Industrial Sensors Market Overview by End-Use Industry.....	324
8.5 Country-wise Analysis of European Industrial Sensors Market	224	9.1 Asia-Pacific Industrial Sensors Market Overview by Geographic Region.....	274	10.5 Country-wise Analysis of South American Industrial Sensors Market	326
8.5.1 FRANCE	224	9.2 Asia-Pacific Industrial Sensors Market Overview by Sensor Type	276	10.5.1 ARGENTINA.....	326
8.5.1.1 French Industrial Sensors Market Overview by Type	225	9.3 Asia-Pacific Industrial Sensors Market Overview by Functionality Type.....	278	10.5.1.1 Argentine Industrial Sensors Market Overview by Type	327
8.5.1.2 French Industrial Sensors Market Overview by Functionality	227	9.4 Asia-Pacific Industrial Sensors Market Overview by End-Use Industry.....	280	10.5.1.2 Argentine Industrial Sensors Market Overview by Functionality	329
8.5.1.3 French Industrial Sensors Market Overview by End-Use Industry.....	229	9.5 Country-wise Analysis of Asia-Pacific Industrial Sensors Market.....	282	10.5.1.3 Argentine Industrial Sensors Market Overview by End-Use Industry.....	331
8.5.2 GERMANY.....	231	9.5.1 CHINA.....	282	10.5.2 BRAZIL.....	333
8.5.2.1 German Industrial Sensors Market Overview by Type	232	9.5.1.1 Chinese Industrial Sensors Market Overview by Sensor Type	283	10.5.2.1 Brazilian Industrial Sensors Market Overview by Type	334
8.5.2.2 German Industrial Sensors Market Overview by Functionality	234	9.5.1.2 Chinese Industrial Sensors Market Overview by Functionality Type.....	285	10.5.2.2 Brazilian Industrial Sensors Market Overview by Functionality	336
8.5.2.3 German Industrial Sensors Market Overview by End-Use Industry.....	236	9.5.1.3 Chinese Industrial Sensors Market Overview by End-Use Industry.....	287	10.5.2.3 Brazilian Industrial Sensors Market Overview by End-Use Industry	338
8.5.3 ITALY	238	9.5.2 INDIA.....	289	10.5.3 REST OF SOUTH AMERICA	340
8.5.3.1 Italian Industrial Sensors Market Overview by Type	239	9.5.2.1 Indian Industrial Sensors Market Overview by Sensor Type	290	10.5.3.1 Rest of South American Industrial Sensors Market Overview by Type	341
8.5.3.2 Italian Industrial Sensors Market Overview by Functionality	241	9.5.2.2 Indian Industrial Sensors Market Overview by Functionality Type.....	292	10.5.3.2 Rest of South American Industrial Sensors Market Overview by Functionality ..	343
8.5.3.3 Italian Industrial Sensors Market Overview by End-Use Industry.....	243	9.5.2.3 Indian Industrial Sensors Market Overview by End-Use Industry.....	294	10.5.3.3 Rest of South American Industrial Sensors Market Overview by End-Use Industry	345
8.5.4 RUSSIA.....	245	9.5.3 JAPAN.....	296	11. MIDDLE EAST & AFRICA	347
8.5.4.1 Russian Industrial Sensors Market Overview by Type	246	9.5.3.1 Japanese Industrial Sensors Market Overview by Sensor Type	297	11.1 Middle East & African Industrial Sensors Market Overview by Type	348
8.5.4.2 Russian Industrial Sensors Market Overview by Functionality	248	9.5.3.2 Japanese Industrial Sensors Market Overview by Functionality Type.....	299	11.2 Middle East & African Industrial Sensors Market Overview by Functionality ..	350
8.5.4.3 Russian Industrial Sensors Market Overview by End-Use Industry.....	250	9.5.3.3 Japanese Industrial Sensors Market Overview by End-Use Industry.....	301	11.3 Middle East & African Industrial Sensors Market Overview by End-Use Industry	352
8.5.5 SPAIN.....	252	9.5.4 SOUTH KOREA.....	303	PART C: GUIDE TO THE INDUSTRY.....	354
8.5.5.1 Spanish Industrial Sensors Market Overview by Type	253	9.5.4.1 South Korean Industrial Sensors Market Overview by Sensor Type.....	304	1. North America	354
8.5.5.2 Spanish Industrial Sensors Market Overview by Functionality	255	9.5.4.2 South Korean Industrial Sensors Market Overview by Functionality Type.....	306	2. Europe	358
8.5.5.3 Spanish Industrial Sensors Market Overview by End-Use Industry.....	257	9.5.4.3 South Korean Industrial Sensors Market Overview by End-Use Industry.....	308	3. Asia-Pacific.....	363
8.5.6 THE UNITED KINGDOM	259	9.5.5 REST OF ASIA-PACIFIC.....	310	4. Rest of World.....	366
8.5.6.1 United Kingdom Industrial Sensors Market Overview by Type.....	260	9.5.5.1 Rest of Asia-Pacific Industrial Sensors Market Overview by Sensor Type....	311	PART D: ANNEXURE.....	367
8.5.6.2 United Kingdom Industrial Sensors Market Overview by Functionality.....	262	9.5.5.2 Rest of Asia-Pacific Industrial Sensors Market Overview by Functionality Type.....	313	1. RESEARCH METHODOLOGY	367
8.5.6.3 United Kingdom Industrial Sensors Market Overview by End-Use Industry	264	9.5.5.3 Rest of Asia-Pacific Industrial Sensors Market Overview by End-Use Industry.....	315	2. FeedBack	369

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