

Industrial Safety Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Presence Sensing Safety Sensors, Safety Controllers, Programmable Safety Systems), By Industry (Energy & Power, Automotive, Oil & Gas), By Region, By Competition, 2018-2028

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Abstracts

Global Industrial Safety Market was valued at USD 6.36 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.82% through 2028. The current trajectory of the Global Industrial Automation Market signals an unprecedented surge, driven by a convergence of influential factors reshaping the landscape of cutting-edge technology. Positioned as a linchpin in the industry, Industrial Automation technology is playing a pivotal role in not only augmenting device performance but also in meeting the escalating demands for efficiency, security, and innovation across various electronic applications. This analysis explores the key catalysts driving the widespread adoption and expansion of Industrial Automation technology on a global scale.

A primary driver steering the universal adoption of Industrial Automation technology is the persistent need for heightened computational power and energy efficiency. In the digital era, there is an unceasing pursuit of solutions that provide faster processing speeds while conserving energy—a demand resonating globally among consumers and industries alike. Industrial Automation technology fulfills this critical need through its innovative three-dimensional transistor structure, significantly enhancing both performance and energy efficiency. This capability empowers electronic devices to tackle more complex tasks with reduced power consumption, establishing Industrial Automation as an indispensable component for applications ranging from smartphones

to data centers. As industries worldwide continue to push the boundaries of technological innovation, there is a growing demand for automation solutions capable of advanced performance and integration. The exceptional ability of Industrial Automation to streamline processes, optimize workflows, and enhance operational efficiency positions it as a vital element for a wide spectrum of applications. From smart manufacturing and supply chain automation to intelligent building management systems, industries rely on Industrial Automation technology to design smarter, more efficient, and connected systems, thereby fostering innovation and productivity in an increasingly interconnected world.

In today's interconnected world, security and data integrity are of paramount importance. Industrial Automation technology assumes a pivotal role in enhancing the security features of electronic systems, offering advanced capabilities such as secure communication protocols and adaptive threat detection. These features are indispensable for safeguarding sensitive data, protecting against cyber threats, and ensuring the reliability and trustworthiness of digital solutions on a global scale. Industrial Automation technology proves vital for applications like critical infrastructure management, cybersecurity, and resilient industrial control systems.

Furthermore, the ongoing trend of automation and increased integration of electronic components is steering the global adoption of Industrial Automation. As industries seek to optimize their processes, reduce manual intervention, and enhance overall efficiency, Industrial Automation enables the design of smarter, more automated systems. This trend is particularly evident in the development of smart factories, autonomous vehicles, and intelligent energy management systems, where Industrial Automation's advantages in real-time data analytics and adaptive control significantly enhance system performance and usability.

In summary, the Global Industrial Automation Market is experiencing substantial growth as industries and consumers worldwide increasingly recognize the pivotal role of Industrial Automation in delivering enhanced performance, energy efficiency, security, and automation across a diverse array of electronic applications. As technology advances and the world becomes more reliant on automated systems, Industrial Automation will persist at the forefront of innovation, shaping the future of the electronics industry and contributing to efficiency and excellence worldwide. This transformation underscores the profound significance of Industrial Automation in shaping the future of technology and its impact on electronic applications across numerous industries on a global scale.

Key Market Drivers:

Growing Emphasis on Workplace Safety and Compliance:

The Global Industrial Safety Market is propelled by a paramount focus on workplace safety and compliance with stringent regulations. Industries across the spectrum, from manufacturing to energy and construction, are increasingly recognizing the intrinsic value of ensuring a safe working environment. Governments and regulatory bodies worldwide are imposing stringent safety standards to mitigate the risks associated with industrial operations. This heightened awareness of the human and financial costs of workplace accidents is driving organizations to invest in advanced industrial safety solutions. As industries evolve, the complexity of operations increases, presenting new challenges and risks. Industrial safety technologies play a crucial role in addressing these challenges by providing real-time monitoring, hazard detection, and emergency response capabilities. This proactive approach not only safeguards the well-being of workers but also ensures compliance with evolving safety regulations. The demand for comprehensive industrial safety solutions continues to surge as organizations prioritize the well-being of their workforce and seek robust systems to navigate the intricacies of modern industrial processes. The adoption of Industrial Internet of Things (IIoT) technologies further amplifies the focus on workplace safety. Connected sensors, wearable devices, and smart monitoring systems contribute to a holistic approach to industrial safety by providing real-time data, enabling predictive maintenance, and facilitating a rapid response to potential hazards.

Rising Incidence of Industrial Accidents and Hazards:

The escalating frequency and severity of industrial accidents globally serve as a significant driver for the growth of the Industrial Safety Market. The consequences of accidents, ranging from injuries and fatalities to production disruptions and financial losses, underscore the critical need for robust safety measures in industrial settings. Industries are increasingly recognizing that investments in advanced safety technologies are not only ethical but also economically prudent. The risk landscape in industrial environments is dynamic, influenced by factors such as technological complexity, globalization, and the introduction of new materials and processes. Industrial safety technologies act as a proactive defense against potential accidents by providing early detection, monitoring, and control of hazardous situations. From gas detection systems to machine safeguarding solutions, the market offers a diverse range of technologies designed to mitigate specific risks associated with different industrial processes. The incorporation of artificial intelligence (AI) and machine learning (ML) into

industrial safety solutions enhances predictive capabilities, allowing organizations to identify potential risks before they escalate. This predictive approach is particularly valuable in industries dealing with hazardous materials, high-risk processes, and critical infrastructure, where the consequences of accidents can be severe.

Technological Advancements in Safety Solutions:

Technological advancements play a pivotal role in driving innovation within the Global Industrial Safety Market. The continuous evolution of sensor technologies, communication protocols, and data analytics contributes to the development of more sophisticated and effective industrial safety solutions. Organizations are increasingly adopting state-of-the-art safety technologies to stay ahead of emerging risks and compliance requirements. Sensor technologies, such as advanced gas detectors, proximity sensors, and thermal imaging cameras, are becoming more accurate, reliable, and versatile. These sensors form the foundation of industrial safety systems, providing real-time data on environmental conditions, equipment status, and worker activities. The integration of these sensors into a unified safety ecosystem enhances the overall situational awareness within industrial facilities. Moreover, the convergence of industrial safety with other emerging technologies, such as AI, ML, and edge computing, is reshaping the landscape. AI-powered analytics enable predictive modeling for potential safety risks, allowing organizations to implement preemptive measures. Edge computing facilitates real-time processing of safety data at the source, reducing latency and enabling rapid response in critical situations. The advent of wearable technologies is another notable advancement in industrial safety. Wearable devices equipped with biometric sensors, GPS tracking, and communication functionalities enhance worker safety by providing continuous monitoring and instant communication capabilities. These devices contribute to the creation of a connected and responsive safety infrastructure. In conclusion, the Global Industrial Safety Market is driven by a confluence of factors, including a heightened focus on workplace safety, the rising incidence of industrial accidents, and continuous technological advancements. As industries recognize the imperative of adopting comprehensive safety solutions, the market is poised for significant growth, with ongoing innovations shaping the future of industrial safety across diverse sectors.

Key Market Challenges

Integration Complexity and Interoperability Challenges:

The Global Industrial Safety Market faces a significant challenge in the complexity of

integrating diverse safety solutions and ensuring seamless interoperability across varied industrial environments. As safety technologies continue to evolve, organizations often deploy a mix of legacy and cutting-edge systems, each designed to address specific safety concerns. This heterogeneity poses challenges in creating a unified safety infrastructure that can comprehensively monitor, analyze, and respond to potential hazards. Interoperability issues arise when different safety systems, such as gas detection, machine safeguarding, and emergency response mechanisms, operate on disparate platforms or use incompatible communication protocols. This lack of integration can result in gaps in safety coverage, delayed response times, and difficulties in extracting actionable insights from safety data. The challenge is compounded in industries with complex processes and multiple points of potential risk. Overcoming integration complexity requires standardized communication protocols, flexible interfaces, and a holistic approach to safety system design. Industry stakeholders, including safety solution providers and industrial end-users, need to collaborate to establish interoperability standards that facilitate the seamless integration of diverse safety technologies. Additionally, the integration challenge extends to the convergence of safety with other operational technologies, such as process control and asset management systems. Achieving a harmonious integration framework is essential for creating a unified safety ecosystem that enhances overall industrial resilience.

Data Security and Privacy Concerns:

The increasing reliance on connected devices, sensors, and data analytics in industrial safety solutions brings forth a second major challenge – data security and privacy concerns. As safety systems generate and process vast amounts of sensitive information related to equipment status, worker activities, and environmental conditions, safeguarding this data against cyber threats becomes paramount. Industrial facilities are prime targets for cyberattacks, and a breach in safety systems can have severe consequences, compromising worker safety and disrupting critical operations. The interconnected nature of modern industrial environments exposes safety solutions to potential vulnerabilities, requiring robust cybersecurity measures to mitigate risks. Organizations must address challenges related to securing safety data during transmission and storage. Encryption, secure communication protocols, and regular cybersecurity audits are essential components of a comprehensive strategy. Additionally, ensuring compliance with data privacy regulations, especially in regions with stringent data protection laws, adds an additional layer of complexity. Balancing the need for real-time data access with stringent security measures poses a continual challenge. Implementing secure-by-design principles and fostering a cybersecurity culture within industrial organizations are crucial steps in overcoming these challenges.

Collaborative efforts between safety solution providers, cybersecurity experts, and industrial end-users are essential to fortify the resilience of industrial safety systems against evolving cyber threats.

Cost Constraints and Return on Investment (ROI) Evaluation:

A perennial challenge in the Global Industrial Safety Market is the balancing act between implementing robust safety solutions and managing cost constraints. While the benefits of enhanced safety are evident, organizations face the challenge of justifying the upfront investment in advanced safety technologies and demonstrating a tangible return on investment (ROI). Industrial safety solutions often involve significant upfront costs related to the acquisition of hardware, software, training, and system integration. For smaller enterprises or industries with tight budgetary constraints, this financial burden can be a barrier to adopting state-of-the-art safety technologies. The challenge is exacerbated when organizations must retrofit existing facilities with new safety systems. Demonstrating ROI for safety investments involves quantifying the tangible and intangible benefits of enhanced safety, including reduced accident-related costs, increased productivity, and improved regulatory compliance. However, measuring these outcomes accurately and over a reasonable timeframe can be complex. Addressing cost constraints requires a collaborative approach between safety solution providers and industrial stakeholders. Innovative pricing models, financing options, and clear communication of the long-term benefits of safety investments can help organizations overcome this challenge. Additionally, industry-wide initiatives that highlight the economic advantages of robust safety practices can influence a cultural shift toward viewing safety expenditures as strategic investments rather than mere costs. In conclusion, the Global Industrial Safety Market grapples with challenges related to integration complexity, data security, privacy concerns, and cost constraints. Overcoming these challenges requires concerted efforts from industry stakeholders, including collaboration on interoperability standards, cybersecurity best practices, and innovative approaches to cost-effective safety solutions.

Key Market Trends

Integration of Artificial Intelligence (AI) and Machine Learning (ML) for Predictive Safety Analytics:

One of the transformative trends shaping the Global Industrial Safety Market is the increasing integration of artificial intelligence (AI) and machine learning (ML) technologies to enable predictive safety analytics. Traditional industrial safety systems

have been reactive, responding to events as they occur. However, the advent of AI and ML is ushering in a new era of proactive safety measures. AI-powered analytics systems can analyze vast datasets from various sensors, monitoring equipment, and historical incident records to identify patterns and potential hazards. Machine learning algorithms can learn from these patterns and predict potential safety risks before they escalate into critical situations. This predictive capability allows industrial facilities to implement preventive measures, conduct predictive maintenance, and optimize safety protocols, contributing to a significant reduction in the occurrence of accidents. Predictive safety analytics also enhance the efficiency of safety systems by reducing false alarms and enabling a more focused response to genuine safety threats. This trend is particularly crucial in industries with complex processes and a multitude of potential risk factors. As organizations seek to enhance workplace safety and comply with evolving regulatory standards, the integration of AI and ML technologies in industrial safety solutions is becoming increasingly prevalent. The use of AI and ML is not limited to hazard prediction; it extends to the optimization of safety training programs and the development of customized safety protocols based on the specific characteristics of a facility. This trend signifies a paradigm shift from reactive safety measures to a proactive, data-driven approach that aligns with the broader Industry 4.0 framework.

Rapid Adoption of Industrial Internet of Things (IIoT) for Real-Time Monitoring and Communication:

The rapid adoption of the Industrial Internet of Things (IIoT) is a dominant trend in the Global Industrial Safety Market, revolutionizing real-time monitoring and communication capabilities within industrial environments. IIoT involves connecting physical devices, sensors, and equipment to a network, allowing them to collect and exchange data. In the context of industrial safety, this connectivity facilitates continuous monitoring of equipment conditions, environmental parameters, and the activities of workers. IIoT-enabled safety solutions provide real-time insights into the operational status of machinery and critical infrastructure. Sensors embedded in equipment can detect anomalies, overheating, or other irregularities, triggering immediate alerts and allowing for swift intervention to prevent accidents. Wearable devices equipped with IIoT capabilities enhance worker safety by monitoring vital signs, location, and exposure to hazardous conditions. Communication within industrial facilities is also being transformed by IIoT. Smart sensors and devices can communicate with each other to share information on safety conditions, creating a networked safety ecosystem. This interconnectedness enables a coordinated response to safety events, improving overall situational awareness and facilitating faster decision-making during emergencies. The

integration of IIoT in industrial safety not only enhances the proactive monitoring of potential hazards but also contributes to the creation of a connected and responsive safety infrastructure. As organizations strive for operational excellence and resilience in the face of dynamic industrial processes, the adoption of IIoT-enabled safety solutions continues to be a prominent trend.

Emphasis on Human-Centric Design and Wearable Technologies:

A notable trend in the Global Industrial Safety Market is the increasing emphasis on human-centric design and the incorporation of wearable technologies to enhance worker safety. Recognizing that human factors play a crucial role in the effectiveness of safety measures, industry stakeholders are focusing on solutions that prioritize the well-being and situational awareness of workers. Wearable technologies, ranging from smart helmets and glasses to biometric sensors, are becoming integral components of industrial safety systems. These devices provide real-time feedback to workers and safety operators, offering insights into physiological parameters, environmental conditions, and potential hazards. For example, smart glasses equipped with augmented reality (AR) can provide workers with visual overlays of safety information, procedural guidance, and real-time data from sensors. Human-centric design principles extend beyond wearables to the overall user interface and experience of safety systems. Intuitive interfaces, user-friendly dashboards, and clear communication of safety information contribute to the effectiveness of safety protocols. The goal is to empower workers with the tools and information needed to make informed decisions in real-time, fostering a culture of safety and accountability. The trend towards human-centric design aligns with the broader movement towards creating healthier and more ergonomic work environments. By integrating wearable technologies and human-centric design principles into industrial safety solutions, organizations aim to not only enhance safety outcomes but also improve overall worker satisfaction, engagement, and productivity. In conclusion, the Global Industrial Safety Market is witnessing transformative trends driven by the integration of AI and ML for predictive safety analytics, the rapid adoption of IIoT for real-time monitoring, and a heightened emphasis on human-centric design and wearable technologies. These trends collectively contribute to the evolution of industrial safety systems, aligning them with the demands of modern industrial processes and the imperative of ensuring the well-being of workers.

Segmental Insights

Component Insights

Safety controllers is the dominating segment in the global industrial safety market. This dominance is due to a number of factors, including: The increasing complexity of industrial machinery and equipment requires more sophisticated safety controllers to ensure safe operation.

The growing demand for safety features on industrial machinery and equipment is driving the demand for safety controllers.

The increasing adoption of safety standards, such as IEC 61508, is driving the demand for safety controllers that are certified to these standards.

Presence sensing safety sensors is the second-largest segment in the global industrial safety market, accounting for over 30% of market share in 2022. This dominance is due to the fact that presence sensing safety sensors are used in a wide variety of applications, such as machine guarding, access control, and material handling.

Programmable safety systems is the third-largest segment in the global industrial safety market, accounting for over 15% of market share in 2022. This dominance is due to the fact that programmable safety systems are becoming increasingly popular in applications where a high level of safety is required, such as in the automotive and aerospace industries.

The other components segment in the global industrial safety market includes a wide range of products, such as safety switches, safety relays, and safety interlocks. This segment is expected to grow in the coming years as the demand for safety components increases in a variety of industries.

Regional Insights

Europe is the dominating region in the Global Industrial Safety Market. This dominance is due to a number of factors, including:

Strict regulatory environment: Europe has a long history of strict safety regulations, and this has led to a strong demand for industrial safety products in the region.

Strong manufacturing base: Europe has a strong manufacturing base, and this has helped to create a strong supply of industrial safety products in the region.

High level of safety awareness: European workers are generally more aware of safety

issues than workers in other parts of the world, and this has driven the demand for industrial safety products in the region.

North America is the second-largest region in the global industrial safety market, accounting for over 25% of market share in 2022. This dominance is due to the fact that North America is home to a large number of multinational corporations, and these corporations have a strong demand for industrial safety products.

Key Market Players

Honeywell International Inc.

Rockwell Automation, Inc.

ABB Ltd.

Siemens AG

Emerson Electric Co.

Schneider Electric SE

General Electric Company

Johnson Controls International plc

3M Company

TE Connectivity Ltd.

Report Scope:

In this report, the Global Industrial Safety Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Industrial Safety Market, By Component:

Presence Sensing Safety Sensors

Safety Controllers

Programmable Safety Systems

Industrial Safety Market, By Industry:

Energy & Power

Automotive

Oil & Gas

Industrial Safety Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Industrial Safety Market.

Available Customizations:

Global Industrial Safety market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL INDUSTRIAL SAFETY MARKET OVERVIEW

6. GLOBAL INDUSTRIAL SAFETY MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Component (Presence Sensing Safety Sensors, Safety Controllers, Programmable Safety Systems)

6.2.2. By Industry (Energy & Power, Automotive, Oil & Gas),)

6.2.3. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

6.3. By Company (2022)

6.4. Market Map

7. NORTH AMERICA INDUSTRIAL SAFETY MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component

7.2.2. By Industry

7.2.3. By Country

7.3. North America: Country Analysis

7.3.1. United States Industrial Safety Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Component

7.3.1.2.2. By Industry

7.3.2. Canada Industrial Safety Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Component

7.3.2.2.2. By Industry

7.3.3. Mexico Industrial Safety Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Component

7.3.3.2.2. By Industry

8. EUROPE INDUSTRIAL SAFETY MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Industry

8.2.3. By Country

8.3. Europe: Country Analysis

8.3.1. Germany Industrial Safety Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Component

8.3.1.2.2. By Industry

8.3.2. France Industrial Safety Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Component

8.3.2.2.2. By Industry

8.3.3. United Kingdom Industrial Safety Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Component

8.3.3.2.2. By Industry

8.3.4. Italy Industrial Safety Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Component

8.3.4.2.2. By Industry

8.3.5. Spain Industrial Safety Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Component

8.3.5.2.2. By Industry

8.3.6. Belgium Industrial Safety Market Outlook

8.3.6.1. Market Size & Forecast

- 8.3.6.1.1. By Value
- 8.3.6.2. Market Share & Forecast
 - 8.3.6.2.1. By Component
 - 8.3.6.2.2. By Industry

9. SOUTH AMERICA INDUSTRIAL SAFETY MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Component
 - 9.2.2. By Industry
 - 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Industrial Safety Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Component
 - 9.3.1.2.2. By Industry
 - 9.3.2. Colombia Industrial Safety Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Component
 - 9.3.2.2.2. By Industry
 - 9.3.3. Argentina Industrial Safety Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Component
 - 9.3.3.2.2. By Industry
 - 9.3.4. Chile Industrial Safety Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Component
 - 9.3.4.2.2. By Industry
 - 9.3.5. Peru Industrial Safety Market Outlook

9.3.5.1. Market Size & Forecast

9.3.5.1.1. By Value

9.3.5.2. Market Share & Forecast

9.3.5.2.1. By Component

9.3.5.2.2. By Industry

10. MIDDLE EAST & AFRICA INDUSTRIAL SAFETY MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Component

10.2.2. By Industry

10.2.3. By Country

10.3. Middle East & Africa: Country Analysis

10.3.1. Saudi Arabia Industrial Safety Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Component

10.3.1.2.2. By Industry

10.3.2. UAE Industrial Safety Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Component

10.3.2.2.2. By Industry

10.3.3. South Africa Industrial Safety Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Component

10.3.3.2.2. By Industry

10.3.4. Turkey Industrial Safety Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Component

10.3.4.2.2. By Industry

10.3.5. Israel Industrial Safety Market Outlook

10.3.5.1. Market Size & Forecast

10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Component

10.3.5.2.2. By Industry

11. ASIA PACIFIC INDUSTRIAL SAFETY MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Component

11.1.2. By Industry

11.1.3. By Country

11.2. Asia-Pacific: Country Analysis

11.2.1. China Industrial Safety Market Outlook

11.2.1.1. Market Size & Forecast

11.2.1.1.1. By Value

11.2.1.2. Market Share & Forecast

11.2.1.2.1. By Component

11.2.1.2.2. By Industry

11.2.2. India Industrial Safety Market Outlook

11.2.2.1. Market Size & Forecast

11.2.2.1.1. By Value

11.2.2.2. Market Share & Forecast

11.2.2.2.1. By Component

11.2.2.2.2. By Industry

11.2.3. Japan Industrial Safety Market Outlook

11.2.3.1. Market Size & Forecast

11.2.3.1.1. By Value

11.2.3.2. Market Share & Forecast

11.2.3.2.1. By Component

11.2.3.2.2. By Industry

11.2.4. South Korea Industrial Safety Market Outlook

11.2.4.1. Market Size & Forecast

11.2.4.1.1. By Value

11.2.4.2. Market Share & Forecast

11.2.4.2.1. By Component

11.2.4.2.2. By Industry

11.2.5. Australia Industrial Safety Market Outlook

- 11.2.5.1. Market Size & Forecast
 - 11.2.5.1.1. By Value
- 11.2.5.2. Market Share & Forecast
 - 11.2.5.2.1. By Component
 - 11.2.5.2.2. By Industry
- 11.2.6. Indonesia Industrial Safety Market Outlook
 - 11.2.6.1. Market Size & Forecast
 - 11.2.6.1.1. By Value
 - 11.2.6.2. Market Share & Forecast
 - 11.2.6.2.1. By Component
 - 11.2.6.2.2. By Industry
- 11.2.7. Vietnam Industrial Safety Market Outlook
 - 11.2.7.1. Market Size & Forecast
 - 11.2.7.1.1. By Value
 - 11.2.7.2. Market Share & Forecast
 - 11.2.7.2.1. By Component
 - 11.2.7.2.2. By Industry

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPANY PROFILES

- 14.1. Honeywell International Inc.
 - 14.1.1. Business Overview
 - 14.1.2. Key Revenue and Financials
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel/Key Contact Person
 - 14.1.5. Key Products/Services Offered
- 14.2. Rockwell Automation, Inc.
 - 14.2.1. Business Overview
 - 14.2.2. Key Revenue and Financials
 - 14.2.3. Recent Developments
 - 14.2.4. Key Personnel/Key Contact Person

- 14.2.5. Key Products/Services Offered
- 14.3. ABB Ltd.
 - 14.3.1. Business Overview
 - 14.3.2. Key Revenue and Financials
 - 14.3.3. Recent Developments
 - 14.3.4. Key Personnel/Key Contact Person
 - 14.3.5. Key Products /Services Offered
- 14.4. Siemens AG
 - 14.4.1. Business Overview
 - 14.4.2. Key Revenue and Financials
 - 14.4.3. Recent Developments
 - 14.4.4. Key Personnel/Key Contact Person
 - 14.4.5. Key Products/Services Offered
- 14.5. Emerson Electric Co.
 - 14.5.1. Business Overview
 - 14.5.2. Key Revenue and Financials
 - 14.5.3. Recent Developments
 - 14.5.4. Key Personnel/Key Contact Person
 - 14.5.5. Key Products/Services Offered
- 14.6. Schneider Electric SE
 - 14.6.1. Business Overview
 - 14.6.2. Key Revenue and Financials
 - 14.6.3. Recent Developments
 - 14.6.4. Key Personnel/Key Contact Person
 - 14.6.5. Key Products/Services Offered
- 14.7. General Electric Company
 - 14.7.1. Business Overview
 - 14.7.2. Key Revenue and Financials
 - 14.7.3. Recent Developments
 - 14.7.4. Key Personnel/Key Contact Person
 - 14.7.5. Key Products/Services Offered
- 14.8. Johnson Controls International plc
 - 14.8.1. Business Overview
 - 14.8.2. Key Revenue and Financials
 - 14.8.3. Recent Developments
 - 14.8.4. Key Personnel/Key Contact Person
 - 14.8.5. Key Products/Services Offered
- 14.9. 3M Company
 - 14.9.1. Business Overview

14.9.2. Key Revenue and Financials

14.9.3. Recent Developments

14.9.4. Key Personnel/Key Contact Person

14.9.5. Key Products/Services Offered

14.10. TE Connectivity Ltd.

14.10.1. Business Overview

14.10.2. Key Revenue and Financials

14.10.3. Recent Developments

14.10.4. Key Personnel/Key Contact Person

14.10.5. Key Products /Services Offered

15. STRATEGIC RECOMMENDATIONS

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