

Machine Safety Market By Component (Safety Sensors, Safety Interlock Switches, Safety Controller, Others), By Implementation (Individual, Embedded), By Industry Vertical (Oil and Gas, Healthcare, Automotive, Metals and Mining, Others), By Region, By Competition Forecast & Opportunities, 2018-2028F

<https://marketpublishers.com/r/M95DADCF4461EN.html>

Date: October 2023

Pages: 176

Price: US\$ 4,900.00 (Single User License)

ID: M95DADCF4461EN

Abstracts

The Global Machine Safety Market reached a valuation of USD 5.08 billion in 2022 and is poised for substantial growth in the forecast period, with an expected Compound Annual Growth Rate (CAGR) of 6.19% through 2028.

The Machine Safety market represents a specialized sector within the broader industrial and manufacturing industry. It focuses on the development, implementation, and maintenance of safety measures and technologies designed to protect workers, machinery, and equipment in industrial settings. This market covers a wide spectrum of safety solutions, including safety sensors, interlocking devices, safety controllers, machine guarding, emergency stop systems, and safety training services.

Machine safety is motivated by the need to prevent accidents, injuries, and fatalities in the workplace, particularly those associated with the operation of machinery and industrial equipment. The market plays a crucial role in ensuring compliance with regulatory standards and guidelines established by government agencies and industry organizations to safeguard the well-being of workers and reduce operational risks.

With the increasing adoption of automation, robotics, and advanced manufacturing technologies across various industries, the Machine Safety market has become instrumental in addressing the unique safety challenges posed by these innovations. It

encompasses a comprehensive range of solutions, both hardware and software, along with safety consultancy and training services, all aimed at creating safer and more secure industrial environments.

Key Market Drivers

Increasing Emphasis on Workplace Safety

Workplace safety has become a paramount concern across industries globally. Employers, regulators, and workers are increasingly recognizing the importance of creating safer working environments. Machine safety, in particular, plays a crucial role in preventing accidents and injuries associated with machinery and equipment. The driver behind this trend is a growing awareness of the human and economic costs of workplace accidents. Accidents involving machines can result in severe injuries, fatalities, property damage, and litigation, all of which can have devastating consequences for businesses. Therefore, there is a strong motivation to invest in machine safety measures to protect human lives, reduce liability, and safeguard the continuity of operations. Additionally, stringent regulatory frameworks, such as OSHA in the United States and EU Machinery Directive in Europe, mandate compliance with machine safety standards. Failure to adhere to these regulations can lead to fines and legal repercussions, further motivating organizations to prioritize machine safety.

Technological Advancements in Machine Safety Systems

Technological advancements are driving innovation in machine safety systems. These innovations encompass a wide range of developments, including advanced sensors, safety controllers, and interlocking devices. The integration of IoT (Internet of Things) and Industry 4.0 technologies has further transformed machine safety by enabling real-time monitoring and predictive maintenance. One key innovation is the emergence of smart safety systems that offer enhanced functionality and flexibility. These systems allow for dynamic risk assessment, adaptive safety responses, and remote monitoring. For instance, safety sensors can detect human presence and adjust machine behavior accordingly, reducing the risk of accidents. Moreover, machine learning and artificial intelligence are being leveraged to analyze vast amounts of safety data, identify patterns, and predict potential safety hazards. This predictive approach allows organizations to proactively address safety issues, reducing downtime and improving overall operational efficiency.

Growing Industrial Automation and Robotics

The proliferation of industrial automation and robotics is a significant driver of the global Machine Safety market. Automation and robotics have transformed manufacturing and industrial processes, leading to increased efficiency, precision, and productivity. However, the integration of automated machinery and robots into workplaces also introduces new safety challenges. To mitigate these risks, organizations are investing in advanced machine safety solutions. Collaborative robots (cobots), which work alongside human operators, require sophisticated safety measures to ensure safe interaction. This includes features like force and proximity sensors, safety-rated software, and protective barriers. As industries continue to embrace automation and robotics to remain competitive, the demand for comprehensive machine safety solutions will continue to rise. Ensuring the safety of both human workers and automated systems is paramount to successful industrial automation deployments.

Globalization and Supply Chain Complexity

Globalization has led to increasingly complex supply chains, with machinery and equipment often sourced from various parts of the world. The diversification of supply chains brings with it the challenge of ensuring consistent safety standards across all equipment, regardless of its origin. To address this challenge, organizations are implementing standardized machine safety practices and technologies. These standards ensure that safety measures are applied consistently across the entire supply chain, reducing the risk of accidents caused by differences in safety protocols or equipment design. Additionally, organizations are placing greater emphasis on supplier compliance with safety regulations and standards. This includes rigorous safety audits, supplier training programs, and the incorporation of safety requirements into procurement contracts.

Liability Concerns and Insurance Premiums

Concerns over liability and insurance premiums are driving organizations to invest in robust machine safety measures. In the event of a workplace accident caused by inadequate safety precautions, companies can face substantial financial liabilities, including legal settlements, medical expenses, and compensation for injured workers. To mitigate these risks, organizations are adopting comprehensive machine safety strategies to minimize the likelihood of accidents and demonstrate a commitment to worker safety. Insurance companies often incentivize these efforts by offering reduced premiums to organizations with strong safety records and well-implemented safety systems. Furthermore, organizations are increasingly recognizing that machine safety is

not only a legal and financial obligation but also a crucial element of corporate social responsibility. Companies that prioritize the safety and well-being of their employees tend to have better reputations, which can positively impact brand perception and customer trust.

Industry-Specific Regulations and Standards

Various industries have specific safety regulations and standards that govern the operation of machinery and equipment. Compliance with these regulations is non-negotiable for businesses operating within these sectors. Failing to meet industry-specific safety requirements can result in fines, legal consequences, and reputational damage. For example, the food and beverage industry has stringent safety standards to prevent contamination and ensure the well-being of workers. The pharmaceutical sector has specific safety requirements to safeguard the production of medicines and medical devices. Energy and utilities industries operate under strict safety regulations to protect workers in potentially hazardous environments. As industries evolve and update their safety standards, organizations must stay current with the latest requirements. This ongoing need for compliance drives investment in machine safety solutions tailored to the unique challenges of each industry.

In conclusion, the global Machine Safety market is driven by a range of factors, including increasing emphasis on workplace safety, technological advancements, the growth of industrial automation and robotics, globalization and supply chain complexity, liability concerns and insurance premiums, and industry-specific regulations and standards. These drivers collectively underscore the importance of machine safety in safeguarding workers, reducing operational risks, and ensuring compliance with evolving safety standards across diverse industries.

Government Policies are Likely to Propel the Market

Occupational Safety and Health Regulations

Occupational safety and health (OSH) regulations are foundational to the global Machine Safety market. Governments worldwide enact and enforce these regulations to protect workers from workplace hazards, including those associated with machinery and equipment. OSH regulations typically mandate the use of specific safety measures, equipment, and procedures to minimize the risk of accidents and injuries. These measures can include the installation of safety guards, interlocking devices, emergency stop mechanisms, and proper training for machine operators. In addition to general

OSH regulations, specific guidelines may exist for different industries, machinery types, and hazardous environments. These policies ensure that employers take appropriate measures to assess and mitigate the risks associated with machinery operation. Stricter OSH regulations drive the adoption of advanced machine safety technologies and practices. Compliance with these regulations is not only a legal requirement but also a moral and ethical obligation to protect the well-being of workers.

Product Safety and Certification Standards

Government policies related to product safety and certification standards are vital for ensuring that machinery and equipment meet the necessary safety criteria before entering the market. These policies aim to safeguard users, operators, and the public from the risks associated with unsafe or poorly designed machinery. Government agencies and industry bodies often establish safety standards and testing procedures for machinery, including requirements for safety labeling, risk assessments, and documentation. Manufacturers must demonstrate compliance with these standards through rigorous testing and certification processes. Furthermore, governments may require third-party organizations to certify and audit machinery and equipment for compliance with safety standards. These policies help maintain consistent safety levels across the industry and promote trust in the market. Innovations in machinery design and safety technologies are often driven by the need to meet or exceed these stringent safety standards, ensuring that products are safe and reliable for users worldwide.

Import and Export Regulations

Import and export regulations play a significant role in the global Machine Safety market, particularly in ensuring the consistent application of safety standards across borders. Governments establish these policies to monitor and control the movement of machinery and equipment into and out of their territories. These regulations often require manufacturers and distributors to provide documentation demonstrating that their products comply with safety standards in both the exporting and importing countries. Additionally, governments may conduct inspections and audits of machinery shipments to verify compliance with safety regulations. Import and export policies help prevent the entry of unsafe or non-compliant machinery into a country, protecting the safety of workers and consumers. They also facilitate international trade by ensuring a level playing field for manufacturers from different regions.

Research and Development Funding

Government policies related to research and development (R&D) funding can significantly influence the advancement of machine safety technologies. Governments recognize the importance of fostering innovation to improve safety measures, enhance the reliability of machinery, and reduce the risk of accidents. Through various funding mechanisms, such as grants, subsidies, and tax incentives, governments incentivize R&D in machine safety. These policies encourage collaboration between academia, industry, and research institutions to develop cutting-edge safety technologies. Public-private partnerships often emerge as a result of government-funded R&D initiatives, fostering collaboration among stakeholders to address complex safety challenges. These partnerships stimulate knowledge transfer and drive technological advancements in the machine safety sector.

Liability and Insurance Regulations

Government policies regarding liability and insurance have a significant impact on the global Machine Safety market. Liability laws define the legal responsibility of manufacturers, employers, and other parties for accidents and injuries caused by machinery and equipment. These policies play a crucial role in incentivizing organizations to invest in machine safety measures. Organizations that prioritize safety can often reduce their liability risks, as they demonstrate a commitment to preventing accidents. Insurance regulations also come into play, as organizations typically require liability insurance coverage to protect themselves in the event of accidents. Insurance companies may offer reduced premiums to organizations with strong safety records and well-implemented safety systems, further incentivizing investment in machine safety. Government policies related to liability and insurance contribute to a culture of safety in workplaces and encourage the adoption of advanced safety technologies.

Environmental Regulations

Environmental regulations can indirectly influence the global Machine Safety market by driving the adoption of environmentally friendly machinery and equipment. Governments worldwide are increasingly concerned about the environmental impact of industrial processes, including energy consumption and emissions. To address these concerns, governments may establish policies that encourage the use of energy-efficient machinery and equipment. These policies often require manufacturers to meet specific environmental performance standards or to label their products with energy efficiency ratings. As organizations seek to comply with these regulations, they may invest in new, more environmentally friendly machinery and equipment. This can lead to the adoption of advanced safety features, as modern machinery often incorporates state-of-the-art

safety technologies alongside energy-efficient components.

In conclusion, government policies significantly impact the global Machine Safety market by shaping occupational safety and health regulations, product safety and certification standards, import and export regulations, research and development funding, liability and insurance regulations, and environmental regulations. These policies collectively contribute to the promotion of safety in workplaces, drive innovation in machine safety technologies, and ensure the reliability and compliance of machinery and equipment across industries and borders.

Key Market Challenges

Complex and Evolving Regulatory Landscape

One of the primary challenges confronting the global Machine Safety market is the complex and continually evolving regulatory landscape. Ensuring compliance with safety regulations and standards, which can vary from region to region, industry to industry, and even machine to machine, presents a significant hurdle for manufacturers, employers, and safety professionals.

Diverse Regulatory Frameworks: Different countries and regions often have their own sets of machine safety regulations and standards. For example, the European Union follows the Machinery Directive (CE marking), the United States adheres to OSHA regulations, and other countries may have their unique safety requirements. This diversity in regulatory frameworks can be overwhelming for multinational corporations operating across borders, as they must navigate a complex web of compliance obligations.

Evolving Standards: Safety standards are not static; they evolve over time to address emerging risks and incorporate technological advancements. Keeping up with these changes requires continuous efforts to assess and update safety practices and machinery designs. Manufacturers must invest in research and development to incorporate the latest safety technologies, while employers must adapt safety protocols and training to align with evolving standards.

Industry-Specific Requirements: Certain industries, such as automotive, pharmaceuticals, and agriculture, have specific safety regulations tailored to their unique processes and hazards. Compliance with industry-specific requirements adds another layer of complexity to ensuring machine safety, as organizations must adapt

their safety measures accordingly.

Documentation and Reporting Burden: Meeting regulatory requirements often involves extensive documentation and reporting obligations. Manufacturers must provide comprehensive safety documentation for their machinery, while employers are required to maintain records of safety inspections, training programs, and incident reports. This administrative burden can be time-consuming and resource-intensive.

Addressing the regulatory complexity challenge in the Machine Safety market requires a multifaceted approach. This includes maintaining a thorough understanding of regional and industry-specific regulations, investing in ongoing training and education for safety professionals, and leveraging technology to streamline compliance efforts, such as using digital documentation and reporting systems.

Balancing Safety and Productivity

Another significant challenge in the global Machine Safety market is the delicate balance between safety and productivity. While ensuring the highest level of safety is a paramount goal, organizations also face the pressure to maintain and improve productivity, which can sometimes appear to be at odds with stringent safety measures.

Safety Measures vs. Efficiency: Implementing robust safety measures, such as machine guarding, interlocking devices, and safety shutdown systems, can sometimes slow down production processes. Workers may need to follow additional safety protocols, resulting in longer cycle times and reduced overall productivity. Striking the right balance between safety and efficiency is a constant challenge for organizations.

Resistance to Change: Introducing new safety measures or modifying existing machinery to enhance safety can face resistance from workers and management who fear disruptions to established workflows and production targets. Overcoming this resistance requires effective communication, worker training, and the demonstration of the long-term benefits of improved safety.

Human Error and Compliance: Even with the best safety systems in place, human error remains a significant factor in workplace accidents. Ensuring that workers consistently follow safety protocols and use safety equipment as intended is an ongoing challenge. Organizations must invest in comprehensive training and safety culture development to mitigate this risk.

Cost Considerations: Implementing advanced safety technologies and practices can involve upfront costs, such as purchasing new safety equipment, conducting safety assessments, and providing training. Organizations must carefully weigh these costs against the potential benefits of reduced accidents, lower liability, and improved worker morale.

Addressing the challenge of balancing safety and productivity requires a holistic approach that integrates safety into the organizational culture and decision-making processes. This involves fostering a safety-first mindset among all employees, investing in ongoing training and awareness programs, conducting regular safety audits and assessments, and collaborating with safety experts to optimize safety measures without compromising productivity goals. Furthermore, organizations must recognize that prioritizing safety can lead to long-term gains in efficiency, reduced downtime due to accidents, and enhanced employee well-being, ultimately benefiting both the workforce and the bottom line.

Segmental Insights

Safety sensors Insights

The Safety sensors segment had the largest market share in 2022 & expected to maintain it in the forecast period. Safety sensors serve as fundamental components in ensuring the safe operation of machinery and equipment in industrial settings. They are designed to detect potentially dangerous conditions, such as the presence of operators in hazardous zones, machine malfunctions, or unexpected movements. By providing real-time information on these conditions, safety sensors play a pivotal role in preventing accidents and injuries. Safety sensors find applications across a wide range of industries and machinery types. They are used in manufacturing, robotics, automotive, pharmaceuticals, logistics, and more. This versatility makes safety sensors a core element of machine safety across various sectors, driving their dominance in the market. Occupational safety and health regulations, established by governments and industry bodies, mandate the use of safety sensors and other safety measures to protect workers from machine-related hazards. Non-compliance can result in legal consequences, fines, and reputational damage for organizations. Consequently, businesses prioritize the integration of safety sensors to ensure compliance with safety standards. With the rise of collaborative robots (cobots) and autonomous systems, safety sensors are essential for enabling safe human-machine collaboration. These sensors can detect the presence of human operators in proximity to machines and trigger safety mechanisms, such as emergency stops, to prevent accidents. As

industries increasingly adopt cobots and autonomous systems, the demand for safety sensors continues to grow. Safety sensor technologies have advanced significantly in recent years. Modern safety sensors are equipped with sophisticated features such as muting, blanking, and self-monitoring capabilities. They can also communicate seamlessly with other safety components and control systems. These technological advancements enhance their effectiveness and ease of integration into complex industrial environments. Safety sensors offer a cost-effective means of enhancing machine safety. Compared to some other safety measures, such as physical guarding or safety interlocks, safety sensors are often more economical to implement. This cost-effectiveness makes them an attractive choice for organizations seeking to improve safety while managing their budgets. Beyond safety functions, safety sensors contribute to predictive maintenance strategies by continuously monitoring machine conditions. They can detect anomalies and wear in machinery components, allowing organizations to schedule maintenance proactively, reduce downtime, and optimize operational efficiency. This additional functionality adds to their value in industrial settings. Global Adoption: Safety sensors have achieved global adoption as a standard safety practice in industrial environments. Manufacturers, OEMs, and system integrators worldwide recognize the importance of incorporating safety sensors into their machinery and equipment designs. This global acceptance further cements the dominance of safety sensors in the Machine Safety market.

Embedded Insights

The Embedded segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. Embedded systems are designed to be an integral part of machinery and equipment. They are incorporated directly into the hardware and software of these systems, providing seamless integration. This embedded nature ensures that safety functions are an inherent part of the machine's operation, making it an efficient and reliable means of ensuring safety. Embedded systems offer real-time monitoring and control capabilities, allowing them to respond instantly to safety-critical situations. They can detect anomalies, unsafe conditions, or operator errors and trigger safety mechanisms, such as emergency stops or protective barriers, with minimal delay. This swift response is essential for preventing accidents and minimizing their impact. Embedded systems can be customized to meet the specific safety requirements of different machines and industries. Manufacturers and system integrators can tailor these systems to address unique safety challenges, adapt to various environments, and accommodate diverse machinery types. This flexibility ensures that safety measures are optimized for each application, contributing to their

dominance in the market. Embedded systems are known for their high reliability and stability. They are purpose-built to withstand harsh industrial conditions, including temperature variations, electromagnetic interference, and mechanical vibrations. This robustness ensures that safety functions continue to operate effectively, even in challenging environments. Embedded safety systems are designed to adhere to safety standards and regulations established by governments and industry bodies. They provide a structured framework for achieving compliance, which is essential for organizations seeking to meet legal requirements and maintain a strong safety culture. Compliance with standards is often a key driver for the adoption of embedded safety systems. Embedded systems can scale to accommodate the complexity and size of the machinery or production line they are integrated into. Whether it's a single machine or an entire manufacturing facility, embedded safety systems can be configured to ensure comprehensive safety coverage. This scalability makes them suitable for a wide range of applications, contributing to their dominance in the market. Embedded safety systems often include advanced diagnostic features that provide insights into machine health and safety performance. They can generate reports, logs, and alerts, allowing maintenance teams to identify potential issues proactively and schedule preventive maintenance. This predictive approach minimizes downtime and enhances overall operational efficiency. The longevity and durability of embedded systems make them a preferred choice for machine safety. These systems are designed for extended lifecycles, ensuring that safety measures remain effective and up-to-date throughout the lifespan of the machinery. This long-term reliability aligns with the goals of organizations looking for sustainable safety solutions.

Regional Insights

Asia Pacific:

The Asia Pacific region had the largest market for machine safety in the global market share in 2022. This is due to the rapid industrialization and urbanization in the region, which is leading to an increased demand for machine safety solutions. The growing automotive, manufacturing, and electronics industries in the region are also driving the demand for machine safety. China is the largest market for machine safety in Asia Pacific, followed by India and Japan.

Europe:

The European market for machine safety had the second-largest in global market share

in 2022. The increasing focus on worker safety and the implementation of strict safety regulations in the region are driving the demand for machine safety solutions. Germany, France, and Italy are the major markets for machine safety in Europe.

North America

The North American market for machine safety had the third largest in 2022. The increasing demand for automation in the manufacturing industry and the growing awareness of worker safety are driving the demand for machine safety solutions in the region. The United States is the largest market for machine safety in North America, followed by Canada and Mexico.

Key Market Players

ABB Ltd.

Emerson Electric Co.

Schneider Electric SE

Siemens AG

Rockwell Automation, Inc

Honeywell International Inc.

Omron Corporation

Keyence Corporation

Yokogawa Electric Corp.

Mitsubishi Electric Corporation

Report Scope:

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

Machine Safety Market By Component (Safety Sensors, Safety Interlock Switches, Safety Controller, Others), By...

Machine Safety Market, By Component:

Safety Sensors

Safety Interlock Switches

Safety Controller

Others

Machine Safety Market, By Implementation:

Individual

Embedded

Machine Safety Market, By Industry Vertical:

Oil and Gas

Healthcare

Automotive

Metals and Mining

Others

Machine Safety Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

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

Available Customizations:

Global Machine 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. SERVICE OVERVIEW

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL MACHINE SAFETY MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Component (Safety Sensors, Safety Interlock Switches, Safety Controller, Others)

5.2.2. By Implementation (Individual, Embedded)

5.2.3. By Industry Vertical (Oil and Gas, Healthcare, Automotive, Metals and Mining, Others)

5.2.4. By Region

5.2.5. By Company (2022)

5.3. Market Map

6. NORTH AMERICA MACHINE SAFETY MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Component

6.2.2. By Implementation

6.2.3. By Industry Vertical

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Machine Safety Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Component

- 6.3.1.2.2. By Implementation
- 6.3.1.2.3. By Industry Vertical
- 6.3.2. Canada Machine Safety Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Component
 - 6.3.2.2.2. By Implementation
 - 6.3.2.2.3. By Industry Vertical
- 6.3.3. Mexico Machine Safety Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Component
 - 6.3.3.2.2. By Implementation
 - 6.3.3.2.3. By Industry Vertical

7. EUROPE MACHINE 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 Implementation
 - 7.2.3. By Industry Vertical
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Machine 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 Implementation
 - 7.3.1.2.3. By Industry Vertical
 - 7.3.2. United Kingdom Machine 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 Implementation
- 7.3.2.2.3. By Industry Vertical
- 7.3.3. Italy Machine 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 Implementation
 - 7.3.3.2.3. By Industry Vertical
- 7.3.4. France Machine Safety Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Component
 - 7.3.4.2.2. By Implementation
 - 7.3.4.2.3. By Industry Vertical
- 7.3.5. Spain Machine Safety Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Component
 - 7.3.5.2.2. By Implementation
 - 7.3.5.2.3. By Industry Vertical

8. ASIA-PACIFIC MACHINE 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 Implementation
 - 8.2.3. By Industry Vertical
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Machine 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 Implementation
- 8.3.1.2.3. By Industry Vertical
- 8.3.2. India Machine 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 Implementation
 - 8.3.2.2.3. By Industry Vertical
- 8.3.3. Japan Machine 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 Implementation
 - 8.3.3.2.3. By Industry Vertical
- 8.3.4. South Korea Machine 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 Implementation
 - 8.3.4.2.3. By Industry Vertical
- 8.3.5. Australia Machine 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 Implementation
 - 8.3.5.2.3. By Industry Vertical

9. SOUTH AMERICA MACHINE 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 Implementation
 - 9.2.3. By Industry Vertical

- 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Machine 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 Implementation
 - 9.3.1.2.3. By Industry Vertical
 - 9.3.2. Argentina Machine 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 Implementation
 - 9.3.2.2.3. By Industry Vertical
 - 9.3.3. Colombia Machine 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 Implementation
 - 9.3.3.2.3. By Industry Vertical

10. MIDDLE EAST AND AFRICA MACHINE 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 Implementation
 - 10.2.3. By Industry Vertical
 - 10.2.4. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Machine 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 Implementation
- 10.3.1.2.3. By Industry Vertical
- 10.3.2. Saudi Arabia Machine 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 Implementation
 - 10.3.2.2.3. By Industry Vertical
- 10.3.3. UAE Machine 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 Implementation
 - 10.3.3.2.3. By Industry Vertical
- 10.3.4. Kuwait Machine 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 Implementation
 - 10.3.4.2.3. By Industry Vertical
- 10.3.5. Turkey Machine 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 Implementation
 - 10.3.5.2.3. By Industry Vertical

11. MARKET DYNAMICS

12. MARKET TRENDS & DEVELOPMENTS

13. COMPETITIVE LANDSCAPE

13.1. ABB Ltd.

13.2. Emerson Electric Co.

- 13.3. Schneider Electric SE
- 13.4. Siemens AG
- 13.5. Rockwell Automation, Inc
- 13.6. Honeywell International Inc.
- 13.7. Omron Corporation
- 13.8. Keyence Corporation
- 13.9. Yokogawa Electric Corp.
- 13.10. Mitsubishi Electric Corporation

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

I would like to order

Product name: Machine Safety Market By Component (Safety Sensors, Safety Interlock Switches, Safety Controller, Others), By Implementation (Individual, Embedded), By Industry Vertical (Oil and Gas, Healthcare, Automotive, Metals and Mining, Others), By Region, By Competition Forecast & Opportunities, 2018-2028F

Product link: <https://marketpublishers.com/r/M95DADCF4461EN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M95DADCF4461EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970