

# **Machine Safety Market by Component (Presence detection Sensors, Safety Controllers/Modules/Relays, Programmable Safety Systems, Emergency Stop Controls, Two-Hand Safety Controls), Offering, Industry and Region - Global Forecast to 2029**

<https://marketpublishers.com/r/M06876496ABEN.html>

Date: February 2024

Pages: 231

Price: US\$ 4,950.00 (Single User License)

ID: M06876496ABEN

## **Abstracts**

The global Machine safety market is expected to grow from USD 5.4 billion in 2024 to USD 7.0 billion by 2029, registering a CAGR of 5.4%. The machine safety sector has experienced notable expansion due to the rise in industrial activities, heightened requirements from oil and gas industries, water treatment, and extensive global infrastructure projects. Advancements in technology, alongside a strong emphasis on enhancing efficiency and dependability in fluid control systems, have been pivotal factors propelling the market's growth.

“Sensors segment to grow at highest CAGR in machine safety market.”

The Sensors segment is experiencing robust growth in the market. The expansion of machine safety sensors is driven by the surge in industrial automation, compliance with stringent safety regulations, continual technological advancements, heightened emphasis on workplace safety, seamless integration with automation systems, and the availability of cost-effective solutions, making them essential components for safeguarding workers and equipment in diverse industries.

“Presence Detection Sensors segment accounted for the largest share of the Machine safety market in 2023.”

The growth of presence detection sensors is fuelled by their integral role in industrial automation, ensuring safety by detecting the presence of humans or objects. As

industries emphasize workplace safety, stringent regulations promote the adoption of these sensors. Ongoing technological advancements, such as improved accuracy and integration capabilities, contribute to their increased usage. With a focus on creating safer work environments, the demand for presence detection sensors continues to rise across various sectors globally.

“Automotive to hold largest market share in the year 2023.”

The expansion of the Machine Safety Market within the automotive industry is propelled by the integration of automation and robotics, strict adherence to safety standards, and continuous technological advancements. The sector's commitment to workplace safety underscores the increasing adoption of advanced machine safety solutions for regulatory compliance and cultivating a safety-oriented corporate culture. Furthermore, the cost-effective and productivity-enhancing attributes associated with these solutions contribute significantly to their growing prevalence in the automotive manufacturing sector.

“Asia Pacific to be the fastest growing region in the forecast period.”

In Asia Pacific, the growth of machine safety is propelled by rapid industrialization, increased automation, and a focus on occupational safety. Stringent regulations drive the adoption of advanced safety solutions in manufacturing, construction, and emerging industries. The region's dynamic technological landscape contributes to the integration of cutting-edge safety systems. As businesses prioritize worker safety and comply with evolving standards, the demand for comprehensive machine safety solutions continues to rise, shaping the safety landscape across Asia Pacific.

The break-up of the profiles of primary participants:

By Company Type – Tier 1 – 35%, Tier 2 – 30%, and Tier 3 – 35%

By Designation – C-level Executives – 45%, Directors – 35%, and Others – 20%

By Region – North America - 35%, Europe – 25%, Asia Pacific – 30%, RoW- 10%

The major players in the market are Emerson Electric Co. (US), Schneider Electric (France), Rockwell Automation, Inc. (US), Keyence Corporation (Japan), and Siemens

AG (Germany)

#### Research Coverage:

The Machine safety market has been segmented into Offerings, Components, Process Industries, Discrete Industries, and regions. The Machine safety market was studied in North America, Europe, Asia Pacific, and the Rest of the World (RoW). The report describes the major drivers, restraints, challenges, and opportunities of the Machine safety market and forecasts the same till 2029. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the Machine safety ecosystem.

#### Key Benefits of Buying the Report:

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

Analysis of Key Drivers (Focus of industrial sector on personnel and asset protection, Enforcement of Stringent machinery and equipment safety regulations, Adoption of automation to improve efficiency and productivity), Restraints (Huge capital requirement to install and automate machine safety systems, Complexities associated with machine safety systems), Opportunities (Increasing awareness about workplace safety standards in emerging economies, Rising use of IIoT to ensure improved performance and extend lifespan of industrial assets), Challenges (Difficulties in designing machine safety products due to ongoing technological advancements, Failure to assess and anticipate all potential risks associated with machinery setup).

Product Development/Innovation: Detailed insights on research and development activities and new product launches in the Machine safety market.

Market Development: Comprehensive information about lucrative markets – the report analyses the Machine safety market across varied regions.

Market Diversification: Exhaustive information about new products, untapped

geographies, recent developments, and investments in the Machine safety market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Schneider Electric (France), Honeywell International, Inc. (US), ABB (Switzerland), Rockwell Automation, Inc. (US), Siemens AG (Germany), OMRON Corporation (Japan), Keyence Corporation (Japan), Yokogawa Electric Corporation (Japan), Emerson Electric Co. (US), General Electric (US), Mitsubishi Electric Corporation (Japan), Sick AG (Germany), HIMA (Germany), IDEC Corporation (Japan) among others in the Machine safety market.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
  - 1.2.1 INCLUSIONS AND EXCLUSIONS
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES
  - 1.7.1 RECESSION IMPACT ANALYSIS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - FIGURE 1 RESEARCH DESIGN
    - 2.1.1 SECONDARY DATA
      - 2.1.1.1 Secondary sources
      - 2.1.1.2 Key data from secondary sources
    - 2.1.2 PRIMARY DATA
      - 2.1.2.1 Breakdown of primary interviews
      - 2.1.2.2 Key data from primary sources
    - 2.1.3 PRIMARY AND SECONDARY RESEARCH
      - 2.1.3.1 Key industry insights
  - 2.2 MARKET SIZE ESTIMATION
    - FIGURE 2 REVENUE GENERATED BY COMPANIES IN MACHINE SAFETY MARKET
      - 2.2.1 BOTTOM-UP APPROACH
        - 2.2.1.1 Approach to arrive at market size using bottom-up analysis (supply-side)
    - FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
      - 2.2.2 TOP-DOWN APPROACH
        - 2.2.2.1 Approach to arrive at market size using top-down analysis (demand-side)
    - FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
  - 2.3 DATA TRIANGULATION
    - FIGURE 5 DATA TRIANGULATION
  - 2.4 RESEARCH ASSUMPTIONS

## FIGURE 6 RESEARCH ASSUMPTIONS

### 2.5 IMPACT ANALYSIS OF RECESSION ON MACHINE SAFETY MARKET

### 2.6 RISK ASSESSMENT

## 3 EXECUTIVE SUMMARY

### FIGURE 7 SYSTEMS TO HOLD LARGEST MARKET SHARE IN 2024

### FIGURE 8 PROGRAMMABLE SAFETY SYSTEMS TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

### FIGURE 9 PROCESS INDUSTRIES TO SECURE LEADING MARKET POSITION DURING FORECAST PERIOD

### FIGURE 10 FOOD & BEVERAGE TO BE LARGEST PROCESS INDUSTRY DURING FORECAST PERIOD

### FIGURE 11 AEROSPACE TO BE LARGEST DISCRETE INDUSTRY DURING FORECAST PERIOD

### FIGURE 12 ASIA PACIFIC TO BE FASTEST-GROWING REGION DURING FORECAST PERIOD

## 4 PREMIUM INSIGHTS

### 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN MACHINE SAFETY MARKET

#### FIGURE 13 SURGE IN INDUSTRIAL AUTOMATION TO DRIVE GROWTH

### 4.2 MACHINE SAFETY MARKET, BY OFFERING

#### FIGURE 14 SYSTEMS TO SURPASS SENSORS DURING FORECAST PERIOD

### 4.3 MACHINE SAFETY MARKET, BY COMPONENT

#### FIGURE 15 PRESENCE DETECTION SENSORS TO BE LARGEST SEGMENT DURING FORECAST PERIOD

### 4.4 MACHINE SAFETY MARKET, BY INDUSTRY

#### FIGURE 16 PROCESS INDUSTRIES TO EXHIBIT FASTEST GROWTH DURING FORECAST PERIOD

### 4.5 MACHINE SAFETY MARKET, BY COUNTRY

#### FIGURE 17 INDIA TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

#### FIGURE 18 MACHINE SAFETY MARKET DYNAMICS

##### 5.2.1 DRIVERS

- 5.2.1.1 Focus of industrial sector on personnel and asset protection
- 5.2.1.2 Enforcement of stringent machinery and equipment safety regulations
- 5.2.1.3 Adoption of automation to improve efficiency and productivity

#### FIGURE 19 MACHINE SAFETY MARKET: IMPACT ANALYSIS OF DRIVERS

##### 5.2.2 RESTRAINTS

5.2.2.1 Huge capital requirement for installing and automating machine safety systems

- 5.2.2.2 Complexities associated with machine safety systems

#### FIGURE 20 MACHINE SAFETY MARKET: IMPACT ANALYSIS OF RESTRAINTS

##### 5.2.3 OPPORTUNITIES

5.2.3.1 Increasing awareness about workplace safety standards in emerging economies

5.2.3.2 Rising use of IIoT to ensure improved performance and prolonged lifespan of industrial assets

#### FIGURE 21 MACHINE SAFETY MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

##### 5.2.4 CHALLENGES

5.2.4.1 Difficulties in designing machine safety products due to continuous technological advancements

- 5.2.4.2 Failure to assess potential risks associated with machinery setup

#### FIGURE 22 MACHINE SAFETY MARKET: IMPACT ANALYSIS OF CHALLENGES

### 5.3 SUPPLY CHAIN ANALYSIS

#### FIGURE 23 SUPPLY CHAIN ANALYSIS

- 5.3.1 RAW MATERIAL PROVIDERS
- 5.3.2 COMPONENT MANUFACTURERS
- 5.3.3 SYSTEM INTEGRATORS
- 5.3.4 DISTRIBUTORS AND RETAILERS
- 5.3.5 END USERS
- 5.3.6 POST-SALES SERVICE PROVIDERS

### 5.4 ECOSYSTEM MAPPING

#### FIGURE 24 ECOSYSTEM MAPPING

#### TABLE 1 ROLE OF COMPANIES IN ECOSYSTEM

### 5.5 PRICING ANALYSIS

#### TABLE 2 AVERAGE SELLING PRICE OF MACHINE SAFETY COMPONENTS OFFERED BY KEY PLAYERS (USD)

#### FIGURE 25 AVERAGE SELLING PRICE OF MACHINE SAFETY COMPONENTS OFFERED BY KEY PLAYERS (USD)

#### FIGURE 26 AVERAGE SELLING PRICE OF MACHINE SAFETY SYSTEMS, 2023–2028 (USD)

#### TABLE 3 AVERAGE SELLING PRICE OF MACHINE SAFETY SYSTEMS, BY REGION



(USD)

## 5.6 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 27 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

## 5.7 PORTER'S FIVE FORCES ANALYSIS

FIGURE 28 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 PORTER'S FIVE FORCES ANALYSIS

5.7.1 THREAT OF NEW ENTRANTS

5.7.2 THREAT OF SUBSTITUTES

5.7.3 BARGAINING POWER OF SUPPLIERS

5.7.4 BARGAINING POWER OF BUYERS

5.7.5 INTENSITY OF COMPETITIVE RIVALRY

## 5.8 CASE STUDIES

5.8.1 ELOPAK INSTALLS ASEPTIC FILLING MACHINE FOR GABLE TOP PACKAGING WITH ROBUST PNEUMATICS FROM EMERSON AVENTICS

5.8.2 MP EQUIPMENT COLLABORATES WITH ROCKWELL AUTOMATION SAFETY CONSULTANTS TO RE-EVALUATE PROTEIN PORTIONING MACHINE DESIGN

5.8.3 MOLLART ENGINEERING SELECTS PROCTER MACHINE SAFETY'S ENCLOSED GUARDS TO INSTALL IN ITS MACHINE TOOLS

## 5.9 TECHNOLOGY TRENDS

5.9.1 COMPUTER VISION

5.9.2 AUTOMATED MACHINE LEARNING (AUTOML)

5.9.3 INTERNET OF THINGS (IOT)

5.9.4 VIRTUAL REALITY (VR)

## 5.10 KEY STAKEHOLDERS AND BUYING CRITERIA

5.10.1 STAKEHOLDERS IN BUYING PROCESS

FIGURE 29 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF MACHINE SAFETY SYSTEMS, BY INDUSTRY

TABLE 5 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF MACHINE SAFETY SYSTEMS, BY INDUSTRY (%)

5.10.2 BUYING CRITERIA

FIGURE 30 BUYING CRITERIA FOR MACHINE SAFETY SYSTEMS, BY INDUSTRY

TABLE 6 BUYING CRITERIA FOR MACHINE SAFETY SYSTEMS, BY INDUSTRY

## 5.11 TRADE ANALYSIS

FIGURE 31 IMPORT DATA FOR HS CODE 8536, BY COUNTRY, 2018–2022 (USD MILLION)

FIGURE 32 EXPORT DATA FOR HS CODE 8536, BY COUNTRY, 2018–2022 (USD MILLION)

## 5.12 PATENT ANALYSIS

FIGURE 33 TOP PATENT APPLICANTS, 2014–2023



FIGURE 34 NUMBER OF PATENTS PUBLISHED, 2014–2023

TABLE 7 TOP PATENT OWNERS, 2014–2023

TABLE 8 PATENT ANALYSIS

5.13 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 9 KEY CONFERENCES AND EVENTS, 2024–2025

5.14 STANDARDS RELATED TO MACHINE SAFETY

5.14.1 IEC 61508

5.14.2 IEC 61511

5.14.3 IEC 62061

5.15 REGULATORY LANDSCAPE

TABLE 10 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

## **6 MACHINE SAFETY MARKET, BY IMPLEMENTATION**

6.1 INTRODUCTION

FIGURE 35 MACHINE SAFETY MARKET, BY IMPLEMENTATION

6.2 INDIVIDUAL

6.3 EMBEDDED

## **7 MACHINE SAFETY MARKET, BY SALES CHANNEL**

7.1 INTRODUCTION

FIGURE 36 MACHINE SAFETY MARKET, BY SALES CHANNEL

7.2 DIRECT

7.3 INDIRECT

## **8 MACHINE SAFETY MARKET, BY APPLICATION**

8.1 INTRODUCTION

FIGURE 37 MACHINE SAFETY MARKET, BY APPLICATION

8.2 ASSEMBLY

8.3 ROBOTICS

#### 8.4 PACKAGING

#### 8.5 MATERIAL HANDLING

#### 8.6 METALWORKING

#### 8.7 WELDING & SHIELDING

### **9 MACHINE SAFETY MARKET, BY OFFERING**

#### 9.1 INTRODUCTION

FIGURE 38 MACHINE SAFETY MARKET, BY OFFERING

FIGURE 39 SYSTEMS TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 14 MACHINE SAFETY MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 15 MACHINE SAFETY MARKET, BY OFFERING, 2024–2029 (USD MILLION)

#### 9.2 SYSTEMS

9.2.1 COMPLIANCE WITH STRINGENT SAFETY STANDARDS TO DRIVE GROWTH

#### 9.3 SENSORS

9.3.1 ADVANCEMENTS IN TECHNOLOGY TO DRIVE GROWTH

### **10 MACHINE SAFETY MARKET, BY COMPONENT**

#### 10.1 INTRODUCTION

FIGURE 40 MACHINE SAFETY MARKET, BY COMPONENT

FIGURE 41 PRESENCE DETECTION SENSORS TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 16 MACHINE SAFETY MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 17 MACHINE SAFETY MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

TABLE 18 MACHINE SAFETY MARKET, BY COMPONENT, 2020–2023 (THOUSAND UNITS)

TABLE 19 MACHINE SAFETY MARKET, BY COMPONENT, 2024–2029 (THOUSAND UNITS)

#### 10.2 PRESENCE DETECTION SENSORS

10.2.1 ADVENT OF INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS TO DRIVE GROWTH

TABLE 20 PRESENCE DETECTION SENSORS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 21 PRESENCE DETECTION SENSORS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 22 PRESENCE DETECTION SENSORS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 23 PRESENCE DETECTION SENSORS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 24 PRESENCE DETECTION SENSORS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 25 PRESENCE DETECTION SENSORS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

10.2.1.1 Safety edges

10.2.1.2 Laser scanners

10.2.1.3 Safety light curtains

10.2.1.3.1 Light-emitting diodes (LEDs)

10.2.1.3.2 Photoelectric cells

10.2.1.3.3 Control units

10.2.1.3.4 Displays

10.2.1.3.5 Enclosures

10.2.1.4 Safety mats

10.2.1.5 Other devices

10.3 PROGRAMMABLE SAFETY SYSTEMS

10.3.1 RISING ADOPTION OF PROGRAMMABLE LOGIC CONTROLLERS TO DRIVE GROWTH

TABLE 26 PROGRAMMABLE SAFETY SYSTEMS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 27 PROGRAMMABLE SAFETY SYSTEMS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 28 PROGRAMMABLE SAFETY SYSTEMS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 29 PROGRAMMABLE SAFETY SYSTEMS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 30 PROGRAMMABLE SAFETY SYSTEMS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 31 PROGRAMMABLE SAFETY SYSTEMS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

10.4 SAFETY CONTROLLERS/MODULES/RELAYS

10.4.1 EXPANDING PRODUCT PORTFOLIO OF MANUFACTURING COMPANIES TO DRIVE GROWTH

TABLE 32 SAFETY CONTROLLERS/MODULES/RELAYS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 33 SAFETY CONTROLLERS/MODULES/RELAYS: MACHINE SAFETY

MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 34 SAFETY CONTROLLERS/MODULES/RELAYS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 35 SAFETY CONTROLLERS/MODULES/RELAYS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 36 SAFETY CONTROLLERS/MODULES/RELAYS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 37 SAFETY CONTROLLERS/MODULES/RELAYS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

## 10.5 SAFETY INTERLOCK SWITCHES

10.5.1 GOVERNMENT INTERVENTION FOR EQUIPMENT AND PERSONNEL SAFETY TO DRIVE GROWTH

10.5.1.1 Electromechanical switches

10.5.1.2 Hinge pin switches

10.5.1.3 Limit switches

10.5.1.4 Non-contact interlock switches

10.5.1.5 Tongue interlock switches

10.5.1.6 Trapped key interlock switches

TABLE 38 SAFETY INTERLOCK SWITCHES: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 39 SAFETY INTERLOCK SWITCHES: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 40 SAFETY INTERLOCK SWITCHES: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 41 SAFETY INTERLOCK SWITCHES: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 42 SAFETY INTERLOCK SWITCHES: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 43 SAFETY INTERLOCK SWITCHES: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

## 10.6 EMERGENCY STOP CONTROLS

10.6.1 NEED TO PREVENT POTENTIAL HAZARDS IN INDUSTRIAL SETTINGS TO DRIVE GROWTH

TABLE 44 EMERGENCY STOP CONTROLS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 45 EMERGENCY STOP CONTROLS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 46 EMERGENCY STOP CONTROLS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 47 EMERGENCY STOP CONTROLS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 48 EMERGENCY STOP CONTROLS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 49 EMERGENCY STOP CONTROLS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

10.6.1.1 Push buttons

10.6.1.2 Rope pull buttons

## 10.7 TWO-HAND SAFETY CONTROLS

10.7.1 EMPHASIS ON WORKPLACE SAFETY TO DRIVE GROWTH

TABLE 50 TWO-HAND SAFETY CONTROLS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 51 TWO-HAND SAFETY CONTROLS: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 52 TWO-HAND SAFETY CONTROLS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 53 TWO-HAND SAFETY CONTROLS: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 54 TWO-HAND SAFETY CONTROLS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 55 TWO-HAND SAFETY CONTROLS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

## 11 MACHINE SAFETY MARKET, BY INDUSTRY

### 11.1 INTRODUCTION

FIGURE 42 MACHINE SAFETY MARKET, BY INDUSTRY

FIGURE 43 PROCESS INDUSTRIES TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 56 MACHINE SAFETY MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

TABLE 57 MACHINE SAFETY MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

### 11.2 PROCESS INDUSTRIES

TABLE 58 PROCESS INDUSTRIES: MACHINE SAFETY MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 59 PROCESS INDUSTRIES: MACHINE SAFETY MARKET, BY TYPE, 2024–2029 (USD MILLION)

#### 11.2.1 CHEMICAL

11.2.1.1 Focus on improving operational efficiency to drive growth

TABLE 60 CHEMICAL: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD

MILLION)

TABLE 61 CHEMICAL: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2.2 FOOD & BEVERAGE

11.2.2.1 Automation in food processing plants to drive growth

TABLE 62 FOOD & BEVERAGE: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 63 FOOD & BEVERAGE: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2.3 METAL & MINING

11.2.3.1 Installation of machine safety systems for prevention of gas leakage to drive growth

TABLE 64 METAL & MINING: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 65 METAL & MINING: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2.4 OIL & GAS

11.2.4.1 Stringent safety regulations and standards to drive growth

TABLE 66 OIL & GAS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 67 OIL & GAS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2.5 PHARMACEUTICAL

11.2.5.1 Deployment of machine safety solutions to enhance productivity to drive growth

TABLE 68 PHARMACEUTICAL: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 69 PHARMACEUTICAL: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2.6 POWER GENERATION

11.2.6.1 Improved awareness about safety to drive growth

TABLE 70 POWER GENERATION: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 71 POWER GENERATION: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2.7 OTHER PROCESS INDUSTRIES

TABLE 72 OTHER PROCESS INDUSTRIES: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 73 OTHER PROCESS INDUSTRIES: MACHINE SAFETY MARKET, BY

REGION, 2024–2029 (USD MILLION)

### 11.3 DISCRETE INDUSTRIES

TABLE 74 DISCRETE INDUSTRIES: MACHINE SAFETY MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 75 DISCRETE INDUSTRIES: MACHINE SAFETY MARKET, BY TYPE, 2024–2029 (USD MILLION)

#### 11.3.1 AEROSPACE

11.3.1.1 Innovations in aerospace manufacturing plants to drive growth

TABLE 76 AEROSPACE: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 77 AEROSPACE: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

#### 11.3.2 AUTOMOTIVE

11.3.2.1 Rising use of machine safety systems in automobiles to drive growth

TABLE 78 AUTOMOTIVE: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 79 AUTOMOTIVE: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

#### 11.3.3 SEMICONDUCTOR & ELECTRONICS

11.3.3.1 Need for high precision in manufacturing to drive growth

TABLE 80 SEMICONDUCTOR & ELECTRONICS: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 81 SEMICONDUCTOR & ELECTRONICS: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

#### 11.3.4 OTHER DISCRETE INDUSTRIES

TABLE 82 OTHER DISCRETE INDUSTRIES: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 83 OTHER DISCRETE INDUSTRIES: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

## 12 MACHINE SAFETY MARKET, BY REGION

### 12.1 INTRODUCTION

FIGURE 44 MACHINE SAFETY MARKET, BY REGION

FIGURE 45 EUROPE TO DOMINATE MARKET FOR MACHINE SAFETY DURING FORECAST PERIOD

TABLE 84 MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 85 MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

### 12.2 NORTH AMERICA



### 12.2.1 RECESSION IMPACT ANALYSIS

FIGURE 46 NORTH AMERICA: MACHINE SAFETY MARKET SNAPSHOT

TABLE 86 NORTH AMERICA: MACHINE SAFETY MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 87 NORTH AMERICA: MACHINE SAFETY MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 88 NORTH AMERICA: MACHINE SAFETY MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 89 NORTH AMERICA: MACHINE SAFETY MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

TABLE 90 NORTH AMERICA: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 91 NORTH AMERICA: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 92 NORTH AMERICA: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 93 NORTH AMERICA: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

### 12.2.2 US

12.2.2.1 Rise in installation of safety-related systems to drive growth

### 12.2.3 CANADA

12.2.3.1 Enforcement of stringent government regulations for workplace safety to drive growth

### 12.2.4 MEXICO

12.2.4.1 Advancements in machine safety technologies to drive growth

## 12.3 EUROPE

### 12.3.1 RECESSION IMPACT ANALYSIS

FIGURE 47 EUROPE: MACHINE SAFETY MARKET SNAPSHOT

TABLE 94 EUROPE: MACHINE SAFETY MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 95 EUROPE: MACHINE SAFETY MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 96 EUROPE: MACHINE SAFETY MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 97 EUROPE: MACHINE SAFETY MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

TABLE 98 EUROPE: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 99 EUROPE: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY,

2024–2029 (USD MILLION)

TABLE 100 EUROPE: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY,  
2020–2023 (USD MILLION)

TABLE 101 EUROPE: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY,  
2024–2029 (USD MILLION)

#### 12.3.2 UK

12.3.2.1 Robust legal framework for workplace safety to drive growth

#### 12.3.3 GERMANY

12.3.3.1 Automation in manufacturing processes to drive growth

#### 12.3.4 FRANCE

12.3.4.1 Implementation of occupational health and safety policies to drive growth

#### 12.3.5 REST OF EUROPE

### 12.4 ASIA PACIFIC

#### 12.4.1 RECESSION IMPACT ANALYSIS

FIGURE 48 ASIA PACIFIC: MACHINE SAFETY MARKET SNAPSHOT

TABLE 102 ASIA PACIFIC: MACHINE SAFETY MARKET, BY COUNTRY, 2020–2023  
(USD MILLION)

TABLE 103 ASIA PACIFIC: MACHINE SAFETY MARKET, BY COUNTRY, 2024–2029  
(USD MILLION)

TABLE 104 ASIA PACIFIC: MACHINE SAFETY MARKET, BY COMPONENT,  
2020–2023 (USD MILLION)

TABLE 105 ASIA PACIFIC: MACHINE SAFETY MARKET, BY COMPONENT,  
2024–2029 (USD MILLION)

TABLE 106 ASIA PACIFIC: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY,  
2020–2023 (USD MILLION)

TABLE 107 ASIA PACIFIC: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY,  
2024–2029 (USD MILLION)

TABLE 108 ASIA PACIFIC: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY,  
2020–2023 (USD MILLION)

TABLE 109 ASIA PACIFIC: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY,  
2024–2029 (USD MILLION)

#### 12.4.2 CHINA

12.4.2.1 Adoption of advanced manufacturing technologies by domestic  
manufacturers to drive growth

#### 12.4.3 JAPAN

12.4.3.1 Expanding process industries to drive growth

#### 12.4.4 INDIA

12.4.4.1 Power for All and Make in India initiatives to drive growth

#### 12.4.5 SOUTH KOREA

12.4.5.1 Increasing investments in machine safety solutions to drive growth

12.4.6 REST OF ASIA PACIFIC

12.5 REST OF THE WORLD

12.5.1 RECESSION IMPACT ANALYSIS

FIGURE 49 SOUTH AMERICA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 110 REST OF THE WORLD: MACHINE SAFETY MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 111 REST OF THE WORLD: MACHINE SAFETY MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 112 REST OF THE WORLD: MACHINE SAFETY MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 113 REST OF THE WORLD: MACHINE SAFETY MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

TABLE 114 REST OF THE WORLD: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 115 REST OF THE WORLD: MACHINE SAFETY MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 116 REST OF THE WORLD: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 117 REST OF THE WORLD: MACHINE SAFETY MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

12.5.2 SOUTH AMERICA

12.5.2.1 Increasing inclination of organizations toward workplace safety to drive growth

12.5.3 GCC

12.5.3.1 Investments in industrialization and infrastructure development to drive growth

12.5.4 AFRICA & REST OF MIDDLE EAST

## **13 COMPETITIVE LANDSCAPE**

13.1 INTRODUCTION

13.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 118 STRATEGIES ADOPTED BY KEY PLAYERS, 2022–2023

13.3 REVENUE ANALYSIS, 2020–2023

FIGURE 50 REVENUE ANALYSIS OF KEY PLAYERS, 2020–2023

13.4 MARKET SHARE ANALYSIS, 2023

TABLE 119 MACHINE SAFETY MARKET: DEGREE OF COMPETITION

**FIGURE 51 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2023****13.5 COMPETITIVE EVALUATION MATRIX, 2023****13.5.1 STARS****13.5.2 EMERGING LEADERS****13.5.3 PERVASIVE PLAYERS****13.5.4 PARTICIPANTS****FIGURE 52 COMPANY EVALUATION MATRIX, 2023****13.5.5 COMPANY FOOTPRINT****TABLE 120 COMPONENT FOOTPRINT****TABLE 121 INDUSTRY FOOTPRINT****TABLE 122 PROCESS INDUSTRY FOOTPRINT****TABLE 123 DISCRETE INDUSTRY FOOTPRINT****TABLE 124 REGION FOOTPRINT****TABLE 125 COMPANY FOOTPRINT****13.6 START-UP/SME EVALUATION MATRIX, 2023****13.6.1 PROGRESSIVE COMPANIES****13.6.2 RESPONSIVE COMPANIES****13.6.3 DYNAMIC COMPANIES****13.6.4 STARTING BLOCKS****FIGURE 53 START-UP/SME EVALUATION MATRIX, 2023****13.6.5 COMPETITIVE BENCHMARKING****TABLE 126 KEY START-UPS/SMES****TABLE 127 COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES****13.7 COMPETITIVE SCENARIO****13.7.1 PRODUCT LAUNCHES/DEVELOPMENTS****TABLE 128 MACHINE SAFETY MARKET: PRODUCT LAUNCHES/DEVELOPMENTS, 2022–2023****13.7.2 DEALS****TABLE 129 MACHINE SAFETY MARKET: DEALS, 2022–2023****13.7.3 OTHERS****TABLE 130 MACHINE SAFETY MARKET: OTHERS, 2022–2023****14 COMPANY PROFILES**

(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))\*

**14.1 KEY PLAYERS****14.1.1 SCHNEIDER ELECTRIC**

TABLE 131 SCHNEIDER ELECTRIC: COMPANY OVERVIEW

FIGURE 54 SCHNEIDER ELECTRIC: COMPANY SNAPSHOT

TABLE 132 SCHNEIDER ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 133 SCHNEIDER ELECTRIC: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 134 SCHNEIDER ELECTRIC: DEALS

14.1.2 HONEYWELL INTERNATIONAL INC.

TABLE 135 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

FIGURE 55 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 136 HONEYWELL INTERNATIONAL INC.:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 137 HONEYWELL INTERNATIONAL INC.: DEALS

14.1.3 ABB

TABLE 138 ABB: COMPANY OVERVIEW

FIGURE 56 ABB: COMPANY SNAPSHOT

TABLE 139 ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 140 ABB: DEALS

14.1.4 ROCKWELL AUTOMATION, INC.

TABLE 141 ROCKWELL AUTOMATION, INC.: COMPANY OVERVIEW

FIGURE 57 ROCKWELL AUTOMATION, INC.: COMPANY SNAPSHOT

TABLE 142 ROCKWELL AUTOMATION, INC.: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 143 ROCKWELL AUTOMATION, INC.: PRODUCT  
LAUNCHES/DEVELOPMENTS

14.1.5 SIEMENS

TABLE 144 SIEMENS: COMPANY OVERVIEW

FIGURE 58 SIEMENS: COMPANY SNAPSHOT

TABLE 145 SIEMENS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 146 SIEMENS: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 147 SIEMENS: OTHERS

14.1.6 OMRON CORPORATION

TABLE 148 OMRON CORPORATION: COMPANY OVERVIEW

FIGURE 59 OMRON CORPORATION: COMPANY SNAPSHOT

TABLE 149 OMRON CORPORATION: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 150 OMRON CORPORATION: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 151 OMRON CORPORATION: DEALS

14.1.7 KEYENCE CORPORATION

TABLE 152 KEYENCE CORPORATION: COMPANY OVERVIEW

FIGURE 60 KEYENCE CORPORATION: COMPANY SNAPSHOT

TABLE 153 KEYENCE CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 154 KEYENCE CORPORATION: PRODUCT LAUNCHES/DEVELOPMENTS

14.1.8 YOKOGAWA ELECTRIC CORPORATION

TABLE 155 YOKOGAWA ELECTRIC CORPORATION: COMPANY OVERVIEW

FIGURE 61 YOKOGAWA ELECTRIC CORPORATION: COMPANY SNAPSHOT

TABLE 156 YOKOGAWA ELECTRIC CORPORATION:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 157 YOKOGAWA ELECTRIC CORPORATION: PRODUCT  
LAUNCHES/DEVELOPMENTS

TABLE 158 YOKOGAWA ELECTRIC CORPORATION: OTHERS

14.1.9 EMERSON ELECTRIC CO.

TABLE 159 EMERSON ELECTRIC CO.: COMPANY OVERVIEW

FIGURE 62 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT

TABLE 160 EMERSON ELECTRIC CO.: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 161 EMERSON ELECTRIC CO.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 162 EMERSON ELECTRIC CO.: DEALS

14.1.10 GENERAL ELECTRIC

TABLE 163 GENERAL ELECTRIC: COMPANY OVERVIEW

FIGURE 63 GENERAL ELECTRIC: COMPANY SNAPSHOT

TABLE 164 GENERAL ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.11 MITSUBISHI ELECTRIC CORPORATION

TABLE 165 MITSUBISHI ELECTRIC CORPORATION: COMPANY OVERVIEW

FIGURE 64 MITSUBISHI ELECTRIC CORPORATION: COMPANY SNAPSHOT

TABLE 166 MITSUBISHI ELECTRIC CORPORATION:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.12 SICK AG

TABLE 167 SICK AG: COMPANY OVERVIEW

FIGURE 65 SICK AG: COMPANY SNAPSHOT

TABLE 168 SICK AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 169 SICK AG: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 170 SICK AG: DEALS

14.1.13 HIMA

TABLE 171 HIMA: COMPANY OVERVIEW

TABLE 172 HIMA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.14 IDEC CORPORATION

TABLE 173 IDEC CORPORATION: COMPANY OVERVIEW

FIGURE 66 IDEC CORPORATION: COMPANY SNAPSHOT

TABLE 174 IDEC CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 175 IDEC CORPORATION: PRODUCT LAUNCHES/DEVELOPMENTS

## 14.2 OTHER MAJOR PLAYERS

14.2.1 BALLUFF GMBH

14.2.2 BANNER ENGINEERING CORP.

14.2.3 BAUMER

14.2.4 PILZ GMBH & CO. KG

14.2.5 PEPPERL+FUCHS SE

## 14.3 SMALL AND MEDIUM-SIZED ENTERPRISES

14.3.1 EUCHNER GMBH + CO. KG

14.3.2 DATALOGIC S.P.A.

14.3.3 LEUZE ELECTRONIC PVT. LTD.

14.3.4 FORTRESS INTERLOCKS

14.3.5 K.A. SCHMERSAL GMBH & CO. KG

14.3.6 ROCKFORD SYSTEMS

14.3.7 STEUTE TECHNOLOGIES GMBH & CO. KG

14.3.8 KSA CARLO GAVAZZI CO. LTD.

14.3.9 MURRELEKTRONIK GMBH

14.3.10 EAO AG

\*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

## 15 ADJACENT MARKETS

### 15.1 INTRODUCTION

### 15.2 STUDY LIMITATIONS

### 15.3 HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY OFFERING

#### 15.3.1 INTRODUCTION

TABLE 176 HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 177 HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY OFFERING, 2022–2027 (USD MILLION)

#### 15.3.2 COMPONENTS

TABLE 178 COMPONENTS: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY TYPE, 2018–2021 (USD MILLION)



TABLE 179 COMPONENTS: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 180 COMPONENTS: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY INDUSTRY, 2018–2021 (USD MILLION)

TABLE 181 COMPONENTS: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY INDUSTRY, 2022–2027 (USD MILLION)

15.3.2.1 Filed initiators

15.3.2.2 Logic solvers

TABLE 182 LOGIC SOLVERS: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 183 LOGIC SOLVERS: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY TYPE, 2022–2027 (USD MILLION)

15.3.2.2.1 Solid-state logic solvers

15.3.2.2.2 Others

15.3.2.3 Valves

15.3.2.4 Actuators

15.3.2.5 Other components

15.3.3 SERVICES

TABLE 184 SERVICES: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 185 SERVICES: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 186 SERVICES: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY INDUSTRY, 2018–2021 (USD MILLION)

TABLE 187 SERVICES: HIGH-INTEGRITY PRESSURE PROTECTION SYSTEM MARKET, BY INDUSTRY, 2022–2027 (USD MILLION)

15.3.3.1 Testing, inspection, and certification (TIC)

15.3.3.2 Maintenance

15.3.3.3 Training and consultation

## **16 APPENDIX**

16.1 KEY INSIGHTS FROM INDUSTRY EXPERTS

16.2 DISCUSSION GUIDE

16.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

16.4 CUSTOMIZATION OPTIONS

16.5 RELATED REPORTS

16.6 AUTHOR DETAILS

## I would like to order

Product name: Machine Safety Market by Component (Presence detection Sensors, Safety Controllers/Modules/Relays, Programmable Safety Systems, Emergency Stop Controls, Two-Hand Safety Controls), Offering, Industry and Region - Global Forecast to 2029

Product link: <https://marketpublishers.com/r/M06876496ABEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M06876496ABEN.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