

Machine Safety Market by Component (Safety Light Curtains, Laser Scanners, Safety Controllers/Modules/Relays, Programmable Safety Systems, Safety Interlock Switches, Push Buttons, Pull Rope Buttons, Two-Hand Safety Controls) - Global Forecast to 2030

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Report description:

At a CAGR of 5.7%, the global machine safety market is anticipated to grow from USD 5.66 billion in 2025 to USD 7.45 billion by 2030. Industrial fires and explosions cost companies and governments billions of dollars in compensation for loss of life and property. Mechanical failure or malfunction in equipment is responsible for igniting one in four structure fires in industrial or manufacturing properties. Consequently, process industries are adopting several security technologies and equipment that help reduce workplace accidents. Thus, rising emphasis on implementing proactive safety measures to prevent accidents drives the growth of the machine safety market.

<https://mnmimg.marketsandmarkets.com/Images/machine-safety-market-img-overview.webp>

"Individual segment to capture prominent share of machine safety market"

Machine safety systems combine several components to safeguard personnel in an industrial environment, involving critical machinery, assembly lines, packaging lines, and robotic applications. These include presence-sensing safety sensors, emergency stop devices, safety PLCs, safety controllers/modules/relays, and safety interlock switches. Individual safety components are installed by assessing risks, identifying potential hazards, considering machine guarding needs, and adding advanced controls. Industries prefer individual components as they are easy to install and control. The functionalities of individual safety components are limited and fulfill only basic safety-related requirements.

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"Safety controllers/modules/relays segment to account for second-largest share of machine safety market, by component"
Machine safety devices require safety controllers/modules/relays to shut down equipment in an emergency, reducing risks significantly. When an error occurs, these relays initiate a safe and reliable response. Each safety relay monitors a specific function. Manufacturing industries utilize these relays with additional safety equipment, including safety guards, light curtains, and safety mats. This collective assembly forms an all-inclusive safety system to safeguard workers and prevent workplace accidents. Machine safety manufacturing companies are expanding their product portfolio of safety controllers.

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"Rising adoption of stringent safety standards to position North America as the second-fastest growing market"

The machine safety market in North America is witnessing growth during the forecast period. The North American market has been studied for the US, Canada, and Mexico. The region has stringent machine safety standards, driving the market growth. Various machine safety standards have been established in the region by organizations, such as the American National Standards Institute (ANSI), the National Fire Protection Association (NFPA), the Robotic Industries Association (RIA), and the Occupational Safety & Health Administration (OSHA). OSHA and ANSI have also outlined the minimum requirements that need to be followed by employers to ensure safe working conditions. Failing to comply with machine safety regulations leads to fines and disciplinary actions against companies. The adoption of machine safety systems in North America is further driven by the presence of significant oil- and gas-producing countries such as the US and Canada. Additionally, many suppliers and safety system manufacturers have facilities in this region.

Breakdown of Primaries

Various executives from key organizations operating in the machine safety market, including CEOs, marketing directors, and innovation and technology directors, were interviewed in-depth.

-□By Company Type: Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%

-□By Designation: Directors - 33%, C-level Executives - 48%, and Others - 19%

-□By Region: North America - 35%, Europe - 18%, Asia Pacific - 40%, and RoW - 7%

Note: Three tiers of companies have been defined based on their total revenue as of 2024; Tier 1: Greater than USD 100 million, Tier 2: Between USD 50 million and USD 100 million, and Tier 3: Less than USD 50 million. Other designations include sales managers, marketing managers, and product managers.

Major players profiled in this report are Schneider Electric (France), Honeywell International Inc.(US), ABB (Switzerland), Rockwell Automation (US), Siemens (Germany), OMRON Corporation (Japan), KEYENCE CORPORATION (Japan), Yokogawa Electric Corporation (Japan), Emerson Electric Co. (US), Mitsubishi Electric Corporation (Japan), SICK AG (Germany), HIMA (Germany), IDEC Corporation (Japan), Balluff GmbH (Germany), Banner Engineering Corp. (US), Baumer (Switzerland), Pilz GmbH & Co. KG (Germany), Pepperl+Fuchs SE (Germany), EUCHNER GmbH + Co. KG (Germany), Datalogic S.p.A. (Italy), Leuze electronic GmbH + Co. KG (Germany), Fortress Interlocks (UK), K.A. Schmersal GmbH & Co. KG (Germany), steute Technologies GmbH & Co. KG (Germany), Carlo Gavazzi (Switzerland), Murrelektronik GmbH (Germany), and EAO AG (Switzerland). These leading companies possess a broad portfolio of products and establish a prominent presence in established and emerging markets.

The study provides a detailed competitive analysis of these key market players, presenting their company profiles, most recent developments, and key market strategies.

Research Coverage

This report segments the machine safety market based on offering, component, implementation, connectivity, application, industry, and region. The offering segment includes systems and sensors. The component segment comprises presence detection sensors, safety controllers/modules/relays, programmable safety systems, safety interlock switches, emergency stop controls, and two-hand safety controls. The implementation segment includes individual and embedded. The connectivity segment includes wired and wireless. The application segment comprises assembly, robotics, packaging, material handling, metal working, and

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welding & shielding. The industry segment includes process and discrete industries. The market has been segmented into four regions: North America, Asia Pacific, Europe, and Rest of the World (RoW).

Reasons to Buy the Report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the subsegments. It will also 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 machine safety market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

Key Benefits of Buying the Report

-□Analysis of key drivers (Rising personnel and asset protection in the industrial sector, Mandatory safety standards for equipment and machinery, Automation to drive efficiency and productivity gains), restraints (High costs associated with of automated machine safety system implementation, Complexity of machine safety system integration), opportunities (Rising workplace safety awareness in emerging economies, Growing adoption of IIoT to optimize industrial asset performance and lifespan), and challenges (Technological advancements complicate machine safety product design, Failing to assess potential risks in machine configuration) influencing the growth of the machine safety market

-□Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and product launches in the machine safety market

-□Market Development: Comprehensive information about lucrative markets, including the analysis of the machine safety market across varied regions

-□Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the machine safety market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, including Siemens (Germany), Schneider Electric (France), KEYENCE CORPORATION (Japan), Rockwell Automation (US), and Emerson Electric Co. (US)

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