

Machine Safety Market Valuation Projected to Hit USD 16.09 Billion by 2035

Machine Safety Market Size, Share and Research Report By Implementation (Individual Components, Embedded Components), By Component (Presence-Sensing Safety)

NEW YORK,, NY, UNITED STATES, July 31, 2026 /EINPresswire.com/ -- The Global [machine safety market](#) reached an estimated USD 5.97 billion in 2025 and is projected to grow from USD 6.55 billion in 2026 to USD 16.09 billion by 2035, registering a CAGR of 10.50% during the forecast period. Two major

catalysts are accelerating this trajectory: the sweeping global harmonization of workplace safety regulations including ISO 13849, IEC 62061, and the EU Machinery Directive 2006/42/EC successor framework that mandates functional safety integration at the equipment design level, and the exponential expansion of collaborative robotics (cobots) and autonomous mobile robots

(AMRs) across manufacturing floors worldwide. With over USD 2.4 trillion in industrial automation capital expenditure projected through 2035, manufacturers face mounting pressure to embed comprehensive safety architectures or risk regulatory non-compliance, workforce injury liability, and production downtime exposure.

Legacy hardwired safety relays and mechanical guards many installed on decade-old production lines are rapidly giving way to intelligent safety controllers, programmable safety PLCs, and vision-based safety monitoring systems that integrate real-time hazard detection, dynamic risk assessment, and predictive maintenance capabilities. A recent ARC Advisory Group analysis estimated that top-

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The Machine Safety Market is growing rapidly due to increasing industrial automation, stringent workplace safety regulations, and rising demand for advanced safety systems across manufacturing sectors”

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quartile manufacturers deploying integrated machine safety platforms alongside functional safety management software reduced workplace injury rates by 31–38% and unplanned



downtime by 19–24% compared to peers relying on conventional safety approaches. This technology shift is not incremental it represents a structural transformation of how the entire industrial sector safeguards human-machine interaction.

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□ How Significant Is the Machine Safety Market's Growth?

The machine safety market has demonstrated consistent and robust expansion, rising from approximately USD 4.41 billion in 2021 to an estimated USD 5.97 billion in 2025, representing a strong historical growth trajectory. The market is expected to more than double over the next decade, driven by increasing automation density across manufacturing, rising awareness of occupational health and safety obligations, and the proliferation of collaborative and autonomous robotic systems that demand sophisticated safety instrumented systems (SIS).

Escalating regulatory enforcement across North America, Europe, and Asia-Pacific paired with growing legal and reputational risks associated with workplace incidents has created acute demand for certified safety components, safety-rated drives, and comprehensive functional safety engineering services. Automotive OEMs, electronics assembly operators, food and beverage processors, and chemical manufacturers are all investing heavily in machine safety upgrades to meet both statutory requirements and internal ESG commitments.

□ What Does the Future Hold for the Machine Safety Market?

Intelligent safety systems and AI-driven risk assessment stand at the forefront of the market's next growth phase. Next-generation machine safety platforms are transforming protection from a reactive, barrier-based model into a proactive, data-intelligent operational framework. Advanced safety controllers now integrate real-time machine vision, [LiDAR](#)-based zone monitoring, and force-torque sensing to dynamically adjust safety parameters based on detected human presence and production context enabling safe human-robot collaboration without sacrificing throughput.

The growing integration of functional safety with industrial cybersecurity is another defining force shaping the market's future. As manufacturing environments become increasingly connected through Industry 4.0 architectures, safety systems must be hardened against both accidental failure and deliberate cyber intrusion. Vendors delivering unified safety-and-security platforms addressing both IEC 61508 functional safety and IEC 62443 industrial cybersecurity standards simultaneously are capturing disproportionate market share among advanced manufacturers.

Cloud-connected safety management is also redefining compliance workflows. With digital safety audit trails, automated proof-test scheduling, and real-time safety performance dashboards now

embedded in enterprise safety platforms, compliance officers and plant managers can maintain demonstrable regulatory adherence across multi-site operations from centralized interfaces dramatically reducing the administrative burden of safety lifecycle management.

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□ Who Are the Key Players in the Machine Safety Market?

The machine safety landscape is characterized by a mix of established industrial automation conglomerates, specialized safety component manufacturers, and emerging AI-native safety technology providers. Key participants shaping the competitive dynamics include:

□Pilz GmbH & Co. KG — a dedicated machine safety specialist delivering safety controllers, safety relays, and functional safety engineering services globally

□Rockwell Automation — providing comprehensive safety PLCs, safety drives, and integrated safety architecture solutions for discrete and process industries

□Siemens AG — offering SIRIUS safety components, SINUMERIK safety functions, and TIA Portal-integrated safety engineering tools across global manufacturing sectors

□Schneider Electric — delivering Preventa safety modules, safety PLCs, and functional safety consulting for industrial and building automation environments

□ABB Ltd — providing safety instrumented systems, safety drives, and collaborative robot safety integration for process and discrete manufacturing

□Keyence Corporation — specializing in safety light curtains, safety laser scanners, and vision-based area monitoring systems for factory automation

□SICK AG — a leading supplier of safety sensors, safety laser scanners, and safety controllers for industrial machine guarding applications

□Omron Corporation — offering safety PLCs, safety light curtains, safety door switches, and cobot safety integration solutions

□Honeywell International — providing safety instrumented systems and functional safety lifecycle management tools for process industries

□Eaton Corporation — delivering safety relays, safety switches, and power distribution safety components for industrial machine builders

Competition in the market is intensifying as vendors race to embed AI-driven predictive safety analytics, expand certified safety component portfolios for collaborative robot applications, and deepen integrations with IIoT platforms and digital twin environments. Strategic acquisitions of functional safety engineering consultancies and software providers are also reshaping the competitive landscape.

□ What Are the Emerging Trends in the Machine Safety Market?

Several transformational trends are redefining how the machine safety market evolves through 2035:

Collaborative Robot (Cobot) Safety Integration: The rapid proliferation of ISO/TS 15066-compliant cobots is driving demand for dynamic force-and-power-limiting safety functions, vision-based presence detection, and real-time speed-and-separation monitoring systems that enable safe human-robot co-working without fixed guarding.

AI-Powered Predictive Safety Analytics: Machine learning models analyzing sensor data streams from safety-rated components light curtains, safety laser scanners, emergency stop devices are enabling predictive identification of safety system degradation before failures occur, shifting maintenance from reactive to anticipatory.

Safety-as-a-Service (SaaS) and Digital Safety Lifecycle Management: Cloud-based platforms delivering continuous safety compliance monitoring, automated proof-test reminders, and digital safety audit documentation are reducing the cost and complexity of functional safety lifecycle management across multi-site industrial operations.

Functional Safety and Cybersecurity Convergence: As OT/IT network boundaries dissolve in Industry 4.0 environments, vendors delivering unified platforms addressing both IEC 61508/ISO 13849 functional safety and IEC 62443 cybersecurity requirements are gaining decisive competitive advantage among advanced manufacturers.

Wireless Safety Systems Expansion: Certified wireless safety devices including WirelessHART and IO-Link Wireless safety nodes are enabling safety system deployment in previously impractical locations such as rotating machinery, AGV charging stations, and hazardous-area process equipment.

Vision-Based Safety Monitoring: AI-enhanced 3D camera systems and depth-sensing safety monitors are supplementing and in some applications replacing traditional physical guarding and safety light curtains, offering more flexible, reconfigurable safety zone management in dynamic production environments.

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□ How Is the Machine Safety Market Segmented?

The machine safety market report provides a comprehensive segmentation framework:

- 1 By Component: Safety Sensors & Light Curtains, Safety Controllers & PLCs, Safety Relays & Modules, Safety Switches & Interlocks, Safety Drives & Motion Control
- 2 By Safety Level: Safety Integrity Level (SIL) 1, SIL 2, SIL 3, SIL 4; Performance Level (PL) a–e
- 3 By Industry Vertical: Automotive, Food & Beverage, Electronics & Semiconductor, Chemicals & Petrochemicals, Oil & Gas, Pharmaceuticals, General Manufacturing
- 4 By Application: Emergency Stop Systems, Safety Guarding, Two-Hand Control, Safety Mats & Edges, Presence Sensing
- 5 By Organization Size: SMEs, Large Enterprises

□ What Are the Regional Insights from the Machine Safety Market?

Europe commands approximately 36% of global machine safety market share, reflecting the region's stringent regulatory environment under the EU Machinery Directive and its successor framework, the deep industrial automation heritage of Germany, Italy, and France, and the concentration of global machine-building OEMs that must embed certified safety architectures at the design stage. Germany alone accounts for a disproportionate share of functional safety engineering services demand, driven by its automotive, mechanical engineering, and chemical processing sectors.

North America holds the second-largest share at approximately 29%, underpinned by OSHA enforcement activity, rapidly expanding cobot deployments across automotive and electronics assembly, and strong adoption of safety-rated control architectures in food processing and pharmaceutical manufacturing. The region's mature channel of system integrators and functional safety consultancies further supports market growth.

Asia-Pacific represents the fastest-growing major region, driven by escalating industrial automation investment in China, Japan, South Korea, and India. Government-mandated workplace safety regulatory reforms in China and India are compelling manufacturers to upgrade from legacy mechanical guarding to certified electronic safety systems. The region's rapidly expanding cobot installed base particularly in electronics and consumer goods assembly is generating substantial incremental demand for ISO/TS 15066-compliant safety solutions.

Middle East & Africa is projected to register the highest CAGR at approximately 8.9% through 2035. Landmark industrial diversification programs including Saudi Vision 2030's manufacturing sector expansion and the UAE's advanced industry initiatives are driving investment in greenfield smart factory projects that incorporate machine safety from the ground up.

South America rounds out the global picture, with Brazil, Mexico, and Argentina representing the

most active markets for machine safety procurement, particularly within the automotive, food and beverage, and oil and gas sectors.

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