Machine safeguarding evaluation
SUSTAINABLE AND INDEPENDENT RISK ASSESSMENT OF YOUR MACHINE

Consulting and design
By law, operating entities of machines are responsible for the safety of their employees in the production and machine environment. Operators who consistently implement and satisfy requirements for a safe workplace prevent accidents and sustainably reduce their liability risk. By doing so, the responsible party ensures that employees can work safely at their workstations and perform better. These are good reasons to have all machines regularly and extensively inspected for hazards - for the highest level of safety and minimal risk.
RELIABLY DETECTING AND ELIMINATING HAZARDS

The safety aspects of production systems can change throughout the machine lifetime. Reasons for this are often conversions or modernization measures on the production system or revised regulations. That is why the safety concepts of all machines should be regularly inspected from the ground up and put under scrutiny.

SICK has the perfect solution: With the product-neutral machine safeguarding evaluation service, gaps in the safety concept of your machine are reliably identified and measures for reducing or preventing safety risks are recommended.

Safety experts from SICK are available worldwide

The certified specialists from SICK, with their expertise in safety technology, are always up-to-date and take into account the valid statutory provisions, regulations and standards – regardless of where the machine under inspection is located.
SERVICE SEQUENCE OF THE “ADVANCED” VERSION

The machine safeguarding evaluation is performed on-site on your machine by our safety experts and follows a pre-defined sequence. We will show you the work steps relevant for the “machine safeguarding evaluation advanced” by using the example of a stretch wrapper.

1. Recording of machine related data:
   Intended use, operating modes, operators, activities, limits of the machine, sketch of the machine

2. Identification of the observable electrical and mechanical hazards with regard to the activities

3. Risk estimation of all identified hazards

4. Recording and assessment of existing protective measures as well as estimation of the suitability for risk reduction
5 Visual inspection of the existing protective devices

6 Generation and handover of an audited report including recommendations for action and budget estimation

7 Recommendation for repair of obviously defective or manipulated protective devices

8 Recommendation for improving safety of non-safeguarded or insufficiently safeguarded hazards
Description of the service

In times of ever-faster product changes, production systems are subjected to constant changes and adjustments. Machine users and safety personnel are faced with the challenge of ensuring the safety of their machines when they are modified, changed or linked. With machine safeguarding evaluation, SICK supports system operators in this task. The service offers an overview of the current safety status of the machine and helps to determine the protective measures necessary for complying with legal requirements. Machine safeguarding evaluation by SICK is therefore the foundation for an effective and also economic protection concept for machines and plants.

At a glance

- Identification of electrical and mechanical hazards
- Risk assessment of identified hazards
- Evaluation of existing protective measures
- Recommendation of new or improvement of existing protective measures
- Consideration of valid provisions and regulations
- Service can be retrieved worldwide

Your benefits

- Detailed knowledge of the safety status of the machines
- Concrete statements on the urgency of improvement measures
- High flexibility thanks to product-neutral perspective
- Economic, well-thought-out recommendations for reducing detected risks
- Reduced effort when drafting safety concepts
- Enables simple and standard-compliant implementation of the recommended protective measures for safety technology
- Foundation for fulfilling due diligence with documented inspection of the machine
- Guaranteed quality thanks to standardized processes and sustainable competence management
Range of services

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a) Consideration of other types of hazards is offered upon request.

b) In the "Basic" version, consideration of hazards only for the normal operating mode.

Basics for the machine safeguarding evaluation from SICK

The following framework conditions and information are crucial for complete and correct machine safeguarding evaluation:

- SICK requires permission to take photos of the machine and to evaluate them for the safeguarding evaluation
- Operational machines and workers or employees familiar with the machine
- A machine layout and a description of operation, e.g. operating instructions

*Note: SICK ensures that all information contained (text and photos) is used exclusively in the framework of the machine safeguarding evaluation and not for any other purpose. Data protection is guaranteed.
THE MACHINE SAFEGUARDING EVALUATION SERVES AS A BASIS FOR SAFE MACHINERY

Documentation of the results
After the machine safeguarding evaluation is complete, you have concrete statements about the safety status of your machine and know which measures must be taken. We document and tell you:
• Where possible machine hazards can occur
• What type of hazards exist
• How these hazards can be eliminated
• Which hazards should be handled with priority
• Which requirements the safety technology should fulfill

Safety solutions – structured and in compliance with standards
Safety experts from SICK provide support with the implementation of the recommended protective measures in compliance with the relevant requirements - promptly and cost-efficiently. SICK has a comprehensible and thorough process to prevent and reduce systematic errors. In the individual phases of the process, all steps required by the standards and guidelines are worked through in a structured manner until you have a safe machine.

FROM THE CONCEPT TO ACCEPTANCE

Machine manufacturers and users
Construction, modification, chain-linking of machines and systems

User
Safety equipment check
Significant change

Risk assessment
Safety concept
System design
Installation and commissioning
Overall validation

Safety equipment check

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SICK is offering a large portfolio of safety trainings dedicated to the design, manufacturing and usage of machines
VERIFIED SAFETY – Safety made by SICK

With its VERIFIED SAFETY seal of quality, SICK provides an assurance that the results have been obtained and verified by certified staff in line with a defined process. VERIFIED SAFETY means guaranteed functional safety with verifiable quality.

Specialists – On site, where ever you are

SICK has specialists to support you wherever you are in the world. Our experts are entirely familiar with local standards and directives. All of our specialists are part of a global network. This means that we can offer you the right skills for local and international projects.

Competence management – Knowledge assured in the long term

Competence is not just about theoretical knowledge. At SICK, every specialist must also have the necessary experience and prove his or her capability by taking regular tests. Across the globe, competence is shared and secured for the future through the SICK Competence Management program.

We are happy to provide seminars to share our knowledge further. SICK is a recognized provider of Functional Safety Engineer training as part of the TÜV Rheinland Functional Safety Program.

Customer project management – Project risks under control at all times

At SICK, all management systems for developing projects follow a uniform and consistent management philosophy.

Projects follow a defined process from acquisition through customer approval. Regular checks against milestones guarantee completeness, reveal any deviations early on, and enable corrective measures to be introduced promptly. Professional and standardized project management is the basis for successful planning, economic implementation, and precise control of projects.
SERVICES FOR MACHINES AND PLANTS: SICK LifeTime Services

Our comprehensive and versatile LifeTime Services are the perfect addition to the comprehensive range of products from SICK. The services range from product-independent consulting to traditional product services.

- **Consulting and design**
  Safe and professional

- **Product and system support**
  Reliable, fast, and on-site

- **Verification and optimization**
  Safe and regularly inspected

- **Upgrade and retrofits**
  Easy, safe, and economical

- **Training and education**
  Practical, focused, and professional
SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 9,700 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, SICK is always close to its customers. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents, and preventing damage to the environment.

SICK has extensive experience in various industries and understands their processes and requirements. With intelligent sensors, SICK delivers exactly what the customers need. In application centers in Europe, Asia, and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes SICK a reliable supplier and development partner.

Comprehensive services round out the offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

That is “Sensor Intelligence.”

Worldwide presence:

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Hong Kong, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → www.sick.com