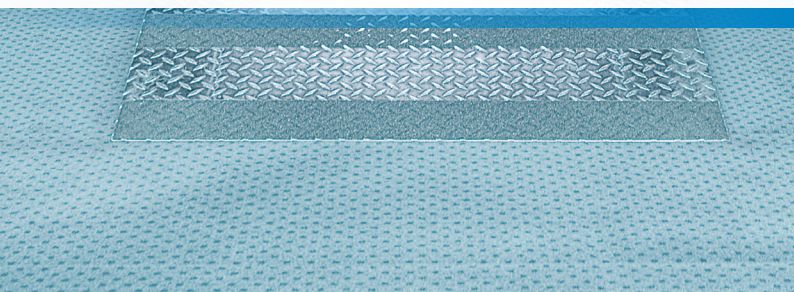




COMPLETELY SECURED CYBERSECURITY FROM SICK

Industrial Information Security

SICK
Sensor Intelligence.



WHAT DOES CYBERSECURITY MEAN?

Cybersecurity means protecting products and the data that they generate and process and ensuring their availability, integrity, and confidentiality. Cybersecurity forms the basis for our customers' trust in our products.

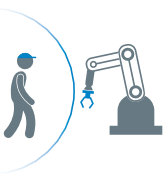
Cybersecurity in an Industry 4.0 environment

As the digitization and networking of production plants increase, the risk of cyberattacks does too.

These attacks can originate inside or outside the production network (for example, they can come from the Internet or from wireless interfaces). For this reason, a comprehensive cybersecurity strategy is essential.

Transmitting data securely and protecting systems against manipulation by hackers present an increasing challenge, in particular as a result of the growth of networking in Industry 4.0 environments.

The difference between safety and cybersecurity:



Safety

Protecting people
from machines



Cybersecurity

Protecting networked
products from targeted
attacks by adversaries

CYBERSECURITY AT SICK

Products and services from SICK are to meet the highest quality standards. Therefore, we already take cybersecurity into consideration and run the relevant tests during the development phase.

Cybersecurity strategy

SICK's cybersecurity strategy comes into effect before the development of new products even begins. Our cybersecurity architecture covers the entire infrastructure from sensors through secure industrial gateways and production networks up to the cloud.

The cybersecurity management system of SICK is based on the IEC 62443 "Industrial communication networks – Network and system security" series of international standards. This ensures that our cybersecurity strategy is applied systematically across the entire organization. The series of standards is also the basis for the development of cybersecurity-relevant products.

Security engineering

New products are developed on the basis of the cybersecurity requirements for the area in which they will be used and for the planned application. Cybersecurity tests are carried out in laboratories to ensure that the specified cybersecurity measures are implemented and are also effective. At SICK, cybersecurity continues throughout the entire product life cycle.

ENSURING CYBERSECURITY

When defining appropriate security measures to ensure cybersecurity, it is important to consider the target system to be created as a whole and – depending on the criticality – assume an individual approach.

Defense in depth

SICK applies the so-called defense in depth strategy. This means that our products are protected by several layers of cybersecurity measures and sensor data is kept separate from untrustworthy network segments.



Applying established standards

SICK bases its security mechanisms on well-established standards in the field of encryption (for example, SSH, TLS, or VPN) and on other state-of-the-art industry standards. This ensures that implemented procedures are reliable and proven.

COMPLETELY SECURED

SICK PSIRT

At SICK, cybersecurity covers the entire product life cycle. Reports and inquiries concerning the cybersecurity of products can be sent directly to the SICK Product Security Incident Response Team (PSIRT). The SICK PSIRT is responsible for the investigation, internal coordination, and disclosure of security vulnerabilities.

The SICK PSIRT publishes security advisories on confirmed security vulnerabilities at www.sick.com/psirt. These provide information and specific recommended actions to a vulnerability.

In order to ensure that it is also equipped to combat future threats, the SICK PSIRT continuously monitors the cybersecurity situation.



Example: SICK Remote Service

Already today, the security architecture of the SICK Remote Service enables it to provide a secure, high-performance remote maintenance connection.

This enables experts to run diagnostic tests remotely and securely during operation.



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