



EVERYTHING YOU NEED FOR AUTOMATION

Sensors, systems, software and services

SICK
Sensor Intelligence.

UNLEASH THE POWER OF YOUR DATA

The digital transformation has been changing all of our lives for years. But the digitalization of industrial production processes still presents many questions for companies. These include: “What do I need to consider with this?” “When will it pay off for me?” And in particular: “How do I implement it effectively?” A particularly important aspect of this is selecting the right partner: one who can support you with the implementation and has expertise in three areas: sensors, integration, and data processing. Because these areas are closely intertwined and mutually affect each other, they need to be tailored to one another.



Generating the data at the field level

When implementing digitalization, it is sometimes forgotten that the best connection and the nicest dashboard are pointless if its foundation, i.e. the generation of data, is unreliable. SICK not only has a comprehensive portfolio of sensors, but also a deep understanding of processes and applications. Our experts will advise you when selecting and installing the sensors to ensure that you are actually measuring what really needs to be measured.

Interface between OT and IT

SICK offers a multitude of technologies and tools for ensuring a problem-free integration of the data into your control systems. Why? Because which integration options are useful depends on the application, location, and type of measurement. The issue of cybersecurity also plays an important role. SICK is guided in this respect by the international series of standards IEC 62443 “Industrial communication networks – Network and system security”. This series of standards also provides a foundation for the development of products.

Data analysis and provision

To monitor and improve your processes, you need meaningful and valuable data on which to base your decisions. Our portfolio of digital solutions has been specially developed to provide you with these insights. Learn more about the digital solutions and how we can generate added value for you too at:

www.sick.com/digitalsolutions



WORKING WITH SICK IN A DIGITAL WORLD

Make your digital business environment comfortable

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- Online product catalog
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- Digital Service Catalog → cloud.sick.com
- SICK AppPool → apppool.cloud.sick.com



SERVICES FOR MACHINES AND SYSTEMS: SICK LifeTime Services

The sophisticated and versatile LifeTime Services perfectly complement the comprehensive SICK product range. Services range from product-independent consulting to traditional product services.



Consulting and design

Secure and professional



Product and system support

Reliable, fast, and on-site



Verification and optimization

Safe and regularly tested



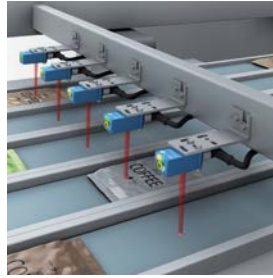
Upgrade and retrofitting

Simple, safe, and economical



Training and education

Practical, focused, and professional



Detection sensors

Detection sensors based on optical, magnetic, inductive or capacitive principles of operation ensure a reliable detection of different objects. These sensors have many applications, from presence and position detection to continuous condition monitoring and the detection of colors and contrasts.

Photoelectric sensors · Fiber-optic sensors and fibers · Inductive proximity sensors · Capacitive proximity sensors · Magnetic proximity sensors · Cylinder sensors · Contrast sensors · Glare sensors · Array sensors · Color sensors · Automation light grids · Linear measurement systems · Condition Monitoring sensors



Distance sensors

As intelligent sources of data, distance sensors from SICK deliver precise information for almost any application. Over many distance, in different environments. Equipped with highly developed technologies and diverse interfaces.

Laser distance sensors · Ultrasonic sensors



Process sensors

The monitoring of relevant process parameters in industrial environments ensures greater efficiency and saves resources. Whether it be pressure, temperature, level or flow – SICK provides a wide range of solutions for process control, stock supply or the monitoring of liquids, gases and bulk materials.

Level sensors · Pressure sensors · Temperature sensors



Motion control sensors

Motion control sensors measure speed, position and angle. They include encoders, motor feedback systems, non-contact motion sensors and inertial sensors. The sensors can be employed in numerous applications and industries and use a variety of technologies and communication interfaces.

Motor feedback systems · Linear encoders · Rotary encoders · Inertial sensors · Non-contact movement sensors



LiDAR sensors · Radar sensors



LiDAR and radar sensors

LiDAR and radar sensors detect and localize objects in their surroundings. In doing so, they detect the size and shape of these objects. The sensors are used in many indoor and outdoor applications, for instance on automated guided vehicle systems, harbor cranes, service robots, or in building automation.



Safety laser scanners · Safety multibeam scanners · Safety radar sensors ·
Safety camera sensors · Safety light curtains · Safe distance sensors ·
Safe series connection · Safety light-beam sensors · Safety relays · Safety switches ·
Safety controllers · Safety systems · Safe Motion Monitoring and Control

Safety

Trust in our safety expertise to make the interplay between humans and machines safer and more productive and take advantage of innovative safety solutions as well as first-class service from a single source. A worldwide network of certified safety experts is at your side and accompanies you in your individual projects.



Image-based code readers · Fixed mount barcode scanners ·
Mobile handheld scanners · RFID · Machine vision

Machine vision and identification

SICK offers a complete portfolio of 2D and 3D vision cameras, image-based code readers, fixed mount barcode scanners, mobile handheld scanners, and RFID read/write devices. Our technologies solve inspection and measuring tasks, read a variety of code types on different surfaces, and identify RFID tags.



Gas analyzers · Dust measuring devices · Visual range measuring devices ·
Smoke detectors · Air quality measuring devices · Overheight detectors ·
Analyzer solutions · Data acquisition system

Analyzers

SICK offers analyzers that use different measurement principles, including among other things for modern traffic control systems. With its in-situ and extractive measurement technology for equipping complete systems, SICK also provides solutions for complex measurement tasks, for example emission and process measurements in power plants, cement plants, and in the chemical industry.



Flow measurement instruments and sensors · Flow meters ·
Flow metering systems · Digital flow solutions



Flow measurement

Flow measurement is used in almost all branches of industry. SICK offers reliable flow measurement instruments, flow meters and innovative flow sensors for testing and monitoring processes in industrial plants or the transport of gases, liquids and solids.



Edge devices · Network devices · Visualization devices · Distributor boxes ·
Plug connectors and cables · Power supply units and power supply cables ·
System plug

Network and connection technology

SICK offers a wide range of connection technologies. Customer-specific adaptations and solutions such as new length variants are also part of the product range. You will save time and money thanks to the simple way of ordering sensors and the precisely matched connection technology.



Object detection systems · Robot guidance systems · Localization systems ·
Profiling systems · Gateway systems · Quality control systems ·
Track and trace systems

System solutions

SICK system solutions for specific customer requirements are especially suited to demanding indoor and outdoor applications. Complex measuring tasks can be solved through a combination of different principles of operation. Their compatibility with higher-level systems makes vertical integration into existing environments possible.



Engineering Tools · SICK SensorApps · Application software

Digital services and solutions

SICK offers a multitude of digital services and solutions to help you automate and optimize your production processes. With a combination of IT, OT and end-to-end solutions to choose from, we enable you to be successful in the digital world.



Consulting and design · Product and system support ·
Verification and optimization · Modernization



Service

From system planning to modernization: SICK Services is enhancing personal safety globally and increasing machine and plant productivity to provide a solid foundation for sustainable business operations. SICK will impress you with its extensive industry know-how and more than 60 years of experience.



Trainings



Trainings

Building up expertise is an important factor for commercial success. In practical training sessions for beginner and advanced attendees, SICK experts teach you the latest concepts and methods in process, logistics and factory automation. Become an expert for safety standards, RFID, Six Sigma and much more.



Antennas · Rechargeable batteries and base stations · Mounting equipment ·
Shaft adaptation · Actuators and bolts · Codes · Device protection and care ·
Programming devices · Commissioning aids and test equipment · Signal transmitters ·
Magnets · Manual unlocking · Measuring wheels and measuring wheel mechanics ·
Optics · Wire draw mechanisms · Storage media · Transponders ·
Optical data transmission · Integration accessories



Accessories

At SICK you will find mounting equipment, optical accessories, antennas, and lots more to suit your application. These accessories are precisely tailored to the products and thus enable them to be quickly and easily integrated into existing systems. This makes your application efficient and reliable.



Learn more about SICK's products at
www.sick.com/products

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 11,900 employees and over 50 subsidiaries and equity investments, as well as numerous international agencies, SICK is always close to its customers. An extensive range of products and services creates the ideal 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, 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