



## SENSOR SOLUTIONS: FOR MORE EFFICIENT AUTOMATION

Sensors, systems, software and services

**SICK**  
Sensor Intelligence.



## DIGITAL TRANSFORMATION

Digital transformation affects us all. The changes digital technologies are making to society as a whole are an ongoing process. Industrial companies are facing enormous opportunities, which at the same time represent major challenges. Examples

of these are networked and highly efficient production processes and new digital business models resulting from the fusion of the operational manufacturing level with the IT level. You are not alone.



### Sensors – data makes it all possible

The basis for digitalization or an IIoT solution in industrial environments is data. This data is generated in machines and plants by means of sensors. Intelligent sensors from SICK can generate this data and pre-process it if necessary, meaning even more valuable information is generated from it. Artificial intelligence, which is growing in importance in industrial automation, offers the possibility of solving more challenging tasks and adapting quickly to changing conditions.

### Machines – digital industrial automation, safe and protected

A high degree of automation characterizes digital transformation and the machines and plants it involves. Automatic guided vehicle systems (AGV systems/AGCs) are used to move manufacturing goods between machines, warehouses, the shipping department, etc. Robots are used to load and unload machines automatically or to work in collaboration with workers in individual production steps. In addition to the pure automation functions, personal safety also plays an important role here.

### Operations – transparency and efficiency with digital solutions

With data come solutions. Digital services and software solutions are based on the sensor data. Thanks to their use on the shop floor, meaning in direct production environments, the individual process and manufacturing sequences become transparent and can then be optimized. The goal is to make your production processes more efficient and reduce downtime, therefore saving costs.



## WORKING WITH SICK IN A DIGITAL WORLD

Making your digital business environment comfortable

### Find a suitable solution in next to no time

- Online product catalog
- Application Solver
- Online configurators and selectors

### My SICK is your personal self-service portal

- Open around the clock
- Clear product information
- Company-specific price conditions
- Convenience during the ordering process
- Document overview
- Availability and delivery times

### Register now:

→ [www.sick.com/myBenefits](http://www.sick.com/myBenefits)

### Even more value

- Digital Customer Trainings → [www.sick.com/c/g300887](http://www.sick.com/c/g300887)
- Digital Service Catalog → [cloud.sick.com](http://cloud.sick.com)
- SICK AppPool → [apppool.cloud.sick.com](http://apppool.cloud.sick.com)



## 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



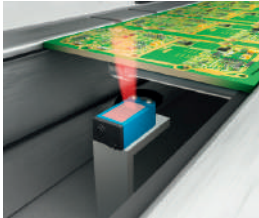
**Verification and optimization**  
Safe and regularly inspected



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

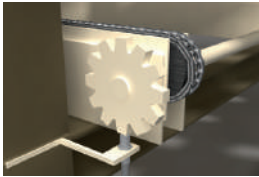


**Training and education**  
Practical, focused, and professional



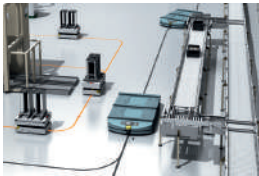
### Photoelectric sensors

- Miniature photoelectric sensors
- Small photoelectric sensors
- Compact photoelectric sensors
- Hybrid photoelectric sensors
- Cylindrical photoelectric sensors
- Fiber-optic sensors and fibers
- MultiTask photoelectric sensors



### Proximity sensors

- Inductive proximity sensors
- Capacitive proximity sensors
- Magnetic proximity sensors



### Line guidance sensors

- Optical line guidance sensors
- Magnetic line guidance sensors



### Magnetic cylinder sensors

- Position sensors
- Sensors for T-slot cylinders
- Sensors for C-slot cylinders
- Sensors for IMI Norgren slot
- Sensor adapters for other cylinder types



### Registration sensors

- Contrast sensors
- Color sensors
- Luminescence sensors
- Fork sensors
- Array sensors
- Glare sensors
- Pattern sensors



### Automation light grids

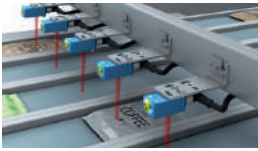
- Measuring automation light grids
- Switching automation light grids



### Opto-electronic protective devices

- Safety camera sensors
- Safety multibeam scanners
- Safety radar sensors
- Safety laser scanners
- Safety light-beam sensors
- Safety light curtains





#### Fiber-optic sensors and fibers

- Fiber-optic sensors
- Fibers



#### Safety switches

- Electro-mechanical safety switches
- Non-contact safety switches
- Safety locking devices
- Safety command devices
- Mechanical bolts for safety switches



#### sens:Control – safe control solutions

- Safe series connection
- Safety relay
- Safe motion monitoring and control



#### Safety systems

- Safety systems



#### Gas analyzers

- Gas transmitters
- In-situ gas analyzers
- Extractive gas analyzers



#### Dust measuring devices

- Scattered light dust measuring devices
- Transmittance dust measuring devices



#### Analyzer solutions

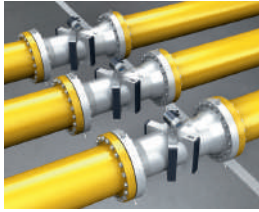
- CEMS solutions
- Process solutions



#### Traffic sensors

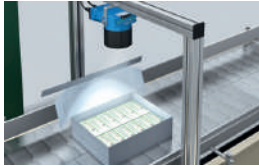
- Tunnel sensors
- Overheight detectors
- Visual range measuring devices





### Flow measurement technology

- Gas flow measuring device
- Gas flow meters
- Liquid flow measuring instruments
- Liquid flow meters
- Solid flow measuring instruments
- Flow metering systems
- Digital flow solutions



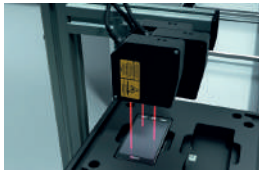
### Identification solutions

- Image-based code readers
- Fixed mount barcode scanner
- RFID
- Mobile handheld scanner



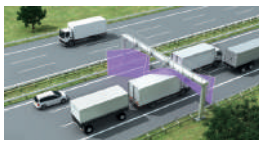
### Machine vision

- 2D machine vision
- 3D machine vision



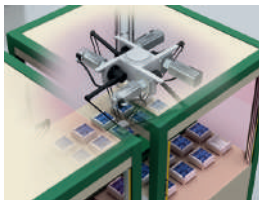
### Distance sensors

- Displacement measurement sensors
- Mid-range distance sensors
- Long-range distance sensors
- Ultrasonic sensors



### Detection and ranging solutions

- 2D LiDAR sensors
- 3D LiDAR sensors
- Radar sensors



### Motor feedback systems

- Motor feedback system rotary HIPERFACE®
- Motor feedback system rotary HIPERFACE DSL®
- Motor feedback system linear HIPERFACE®
- Motor feedback system rotary incremental
- Motor feedback system rotary incremental with commutation



### Encoders

- Absolute encoders
- Incremental encoders
- Linear encoders
- Wire draw encoders
- Safety encoders
- Measuring wheel encoders



### Localization and positioning solutions

- Line guidance and grid localization
- LiDAR localization
- Tag localization
- Linear measurement sensors





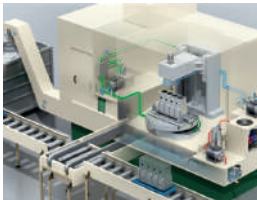
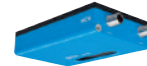
#### Inertial sensors

- Inclination sensors
- Dynamic inclination sensors



#### Contactless movement sensors

- Laser surface movement sensors



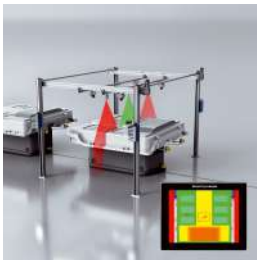
#### Fluid sensors

- Level sensors
- Pressure sensors
- Flow sensors
- Temperature sensors



#### Integration products

- Sensor integration machine
- 4Dpro connectivity
- Sensor integration display
- Sensor integration gateway
- Integration solutions



#### System solutions

- Continuous emission monitoring systems (CEMS)
- Driver assistance systems
- Robot guidance systems
- Object detection systems
- Profiling systems
- Gateway systems
- Quality control systems
- Process gas analysis systems (PGA)
- Track and trace systems
- Flow metering systems



#### SICK IntegrationSpace

- SICK AppSpace software
- Analytics solutions
- Integrated managing solutions
- Sensor visualization



#### SICK AppSpace

- SICK AppSpace software tools
- SICK AppSpace artificial intelligence
- SICK AppSpace programmable devices
- SICK AppSpace SensorApps



Learn more about SICK product portfolio at [www.sick.com/products](http://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 11,000 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](https://www.sick.com)



Our mission is to be regarded by our customers and community as the best supplier of automation and control product solutions to industry.

## CORPORATE OFFICE AND DISTRIBUTION CENTER

---

3315 Overton Crossing  
Memphis, TN 38127  
P: 901-357-1261 | F: 901-257-1379

## CENTRO BRANCHES

---

320 Nancy Lynn Lane, Suite 7  
Knoxville, TN 37919  
P: 865-588-7473 | F: 865-588-8861

6800 Bert Kouns Industrial Loop  
Shreveport, LA 71129  
P: 318-221-2347 | F: 218-227-1927

321 Hill Avenue  
Nashville, TN 37210  
P: 615-255-2220 | F: 615-255-2212

3794 Abigail Drive  
Theodore, AL 36582  
P: 251-626-0100 | F: 251-626-0310

### **Advanced Industry Support**

6400 Shelby View Drive, Suite 100  
Memphis, TN 38134  
901-383-9744 | F: 901-383-8369

7600 Hardin Drive  
Little Rock, AR 72117  
P: 501-835-2193 | F: 501-835-2277

102 Ashley Lane  
El Dorado, AR 71730  
P: 870-881-8383

2423 1st Avenue South  
Irondale, AL 35210  
P: 205-703-9810 | F: 205-703-9811