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 I4.0 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.

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WORKING WITH SICK IN A DIGITAL WORLD

Making your digital business environment comfortable

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- Application Solver
- Online configurators and selectors

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- Document overview
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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
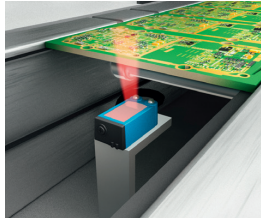Reliable, fast, and on-site

Verification and optimization
Safe and regularly inspected

Upgrade and retrofits
Easy, safe, and economical

Training and education
Practical, focused, and professional

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Photoelectric sensors

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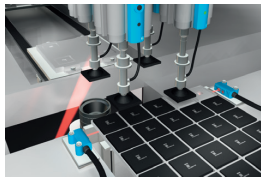- MultiTask photoelectric sensors
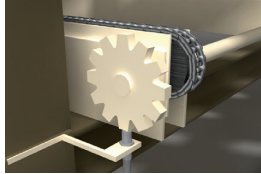
Proximity sensors

- Inductive proximity sensors
- Capacitive proximity sensors
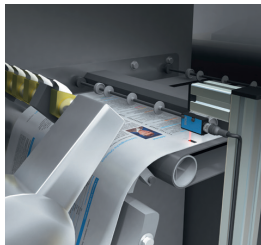- Magnetic proximity sensors
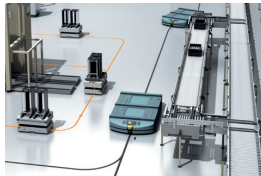
Line guidance sensors

- 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
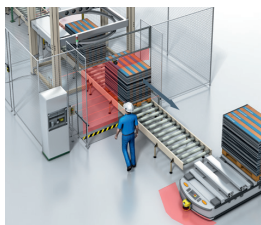- Sensor adapters for other cylinder types

Registration sensors

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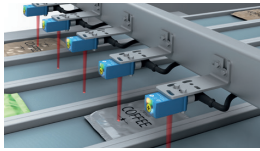- Pattern sensors

Automation light grids

- Measuring automation light grids
- Switching automation light grids
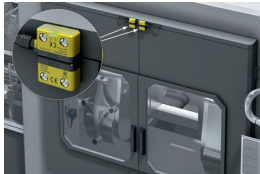
Opto-electronic protective devices

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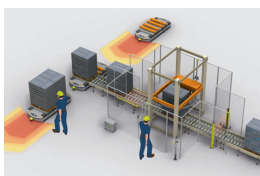- Safety light-beam sensors
- Safety light curtains

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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
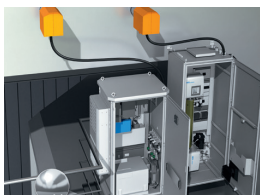
Safety systems

- 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

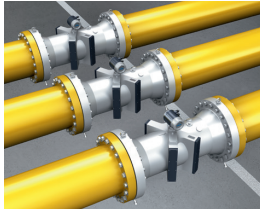- CEMS solutions
- Process solutions

Traffic sensors

- Tunnel sensors
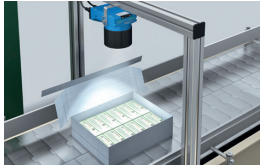- Overheight detectors
- Visual range measuring devices

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Flow measurement technology

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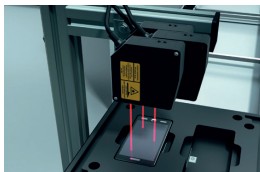- Flow metering systems
- Digital flow solutions

Identification solutions

- Image-based code readers
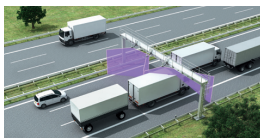- Fixed mount barcode scanner
- RFID
- Mobile handheld scanner
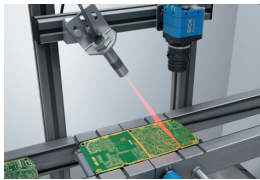
Machine vision
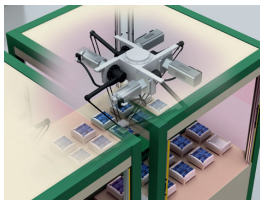
- 2D machine vision
- 3D machine vision

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
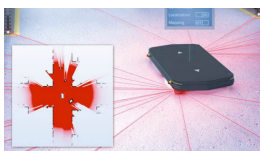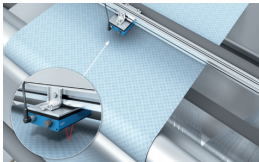
Localization and positioning solutions

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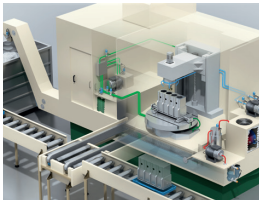- LiDAR localization
- Tag localization
- Linear measurement sensors

Inertial sensors

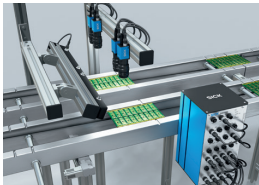- Inclination sensors
- Dynamic inclination sensors

Contactless movement sensors

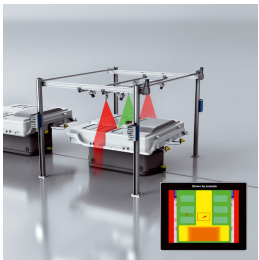- Laser surface movement sensors

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
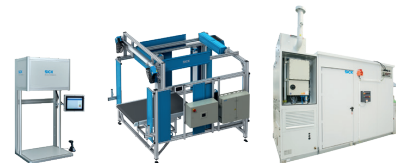
SICK IntegrationSpace

- 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**

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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**

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

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