BUILDING MANAGEMENT
SENSOR SOLUTIONS FOR DOORS, GATES, ACCESS GATES, WINDOWS, ROOFS AND FACADES

Ensuring comfort and security
SERVICES FOR MACHINES AND SYSTEMS: 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
 Every building and every application places individual requirements on the sensors it uses. Thanks to its comprehensive industry knowledge and a wide range of individual sensors, complete systems and services, SICK is an expert in building management: Encoders accurately position revolving doors and elevators and precisely monitor the speed of escalators and moving sidewalks. Photoelectric sensors monitor gates and are used for person singulation in security door systems. RFID technology with long scanning ranges opens doors without making contact and enables fast and automatic management of vehicles in parking facilities.

**Detecting**

Sensors from SICK are ideal for application monitoring of persons and objects. The large selection of photoelectric sensors, light grids and 2D LiDAR sensors offers the right sensor for every task.

**Protecting**

In the area of safety, sensors and systems from SICK ensure that safety requirements are met in compliance with applicable laws and standards. They efficiently protect hazardous areas and enable the highest plant availability at the same time.

**Identification**

SICK RFID read/write devices reliably read transponders for access control. This ensures that only persons or vehicles with access authorization can enter certain buildings or areas.

**Position determination**

Sensors from SICK ensure maximum positioning accuracy, reproducibility, speed and optimal cycle times. Its comprehensive portfolio of distance sensors, encoders and vision sensors allow optimal adaptation to the requirements of the respective applications.
Position determination on a revolving door
Encoders detect the absolute position of the rotation axis. They precisely position the revolving door and reliably monitor its rotation speed. Various interfaces are available for transmitting the recorded data to the door control.
• Absolut encoder AHS/AHM36 CANopen

Door leaf detection on automatic sliding doors
IQB inductive proximity sensors can be integrated into the door drive due to their compact size and reliably detect the door leaf in the end positions. High switching accuracy and resistance to shock and vibrations ensure a long service life.
• Inductive proximity sensor IQB

Non-contact access control
The RAM security system flexibly manages access rights. The RFID read/write device reads the transponders of authorized individuals and grants them access as appropriate. Due to the large scanning range of the sensor, persons are detected early-on and doors open without contact being made.
• Security system RAM
Monitoring of outdoor gates
In outdoor gates, objects must be reliably detected in order to stop the door movement. The WSE280-2 compact photoelectric sensor used for this purpose is resistant to contamination due to the high operating reserve and can reliably detect vehicles even in outdoor areas.

- Compact photoelectric sensor W280-2

Position determination of high speed gates
A DBS36 incremental encoder precisely monitors the upper and lower end position as well as the speed of the high speed gate. The encoder can be assembled easily using face mount flanges or hollow shafts and saves on installation space due to its compact size.

- Incremental encoder DBS36 Core

Protection of automated rolling gates
L28 photoelectric switches reliably detect objects, preventing collisions with the rolling gates. If persons hold onto the grid during the upward movement, which is forbidden, a second photoelectric sensor prevents their hands from moving into the upper hazardous area.

- Photoelectric safety switch L28
Person singulation in access gates
In access gates, it must be ensured that only authorized persons can pass the security door and that no unauthorized persons follow them. Thanks to the compact design of the G6 miniature photoelectric sensor, persons singulation can also be implemented with low space requirements using several sensors.
- Miniature photoelectric sensor G6

Pass-through and direction detection in airport security door systems
Security door systems at airports separate the transition point between secured and unsecured areas. MLG-2 automation light grids reliably detect persons and thrown objects. If two light grids are installed one behind another, the direction can also be detected.
- Automation light grid MLG-2 Pro

Detection of person size at automated border controls
At automated border controls, a camera compares the picture in a passport with the face of the passenger. Before this happens, the passenger goes through a vertical MLG-2 automation light grid with single-beam evaluation. The light grid detects the size of the person and has the camera positioned to the height of the person’s face.
- Automation light grid MLG-2 ProNet
Protection of automated windows
microScan3 safety laser scanners secure crushing and shearing points in automatically-operated windows. The adjustable protective field of the scanner is aligned parallel to the hazardous area and reliably stops the closing movement of the window if it is interrupted.

- Safety laser scanner microScan3 Core

Positioning stadium roofs
The KH53 linear encoder monitors the opening and closing of large stadium roofs without making contact. It precisely determines the position of the heavy roof elements even under tough ambient conditions such as contamination, dust, fog, shock and vibrations.

- Linear encoder KH53

Distance monitoring when retracting or rolling out stadium lawns
Dx1000 long range distance sensors deliver reliable measurement data over large distances for both indoor and outdoor applications. When retracting and rolling out a stadium lawn, they permanently measure the distance from the opposite side of the playing field and ensure uniform movement.

- Long range distance sensors Dx1000
SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 8,000 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, we are always close to our 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.

We have extensive experience in various industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our 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 us a reliable supplier and development partner.

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

For us, 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