BUILDING MANAGEMENT

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

Ensuring comfort and security

SICK
Sensor Intelligence.

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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

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CHALLENGES IN BUILDING MANAGEMENT

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.

Read more about sensor solutions for building management:
➜ www.sick.com/building_management

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.

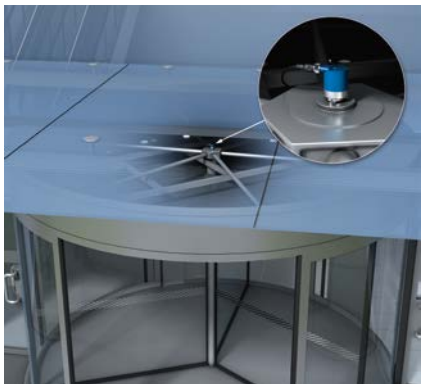
Identification

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.

DOORS



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

➜ www.sick.com/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

➜ www.sick.com/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

➜ www.sick.com/RAM

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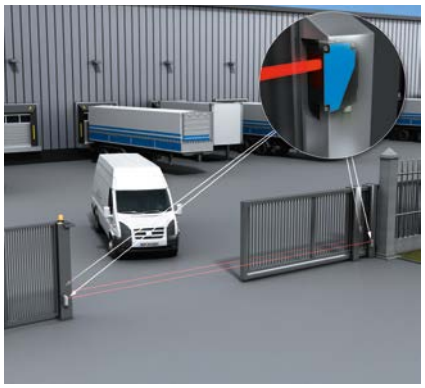
GATES

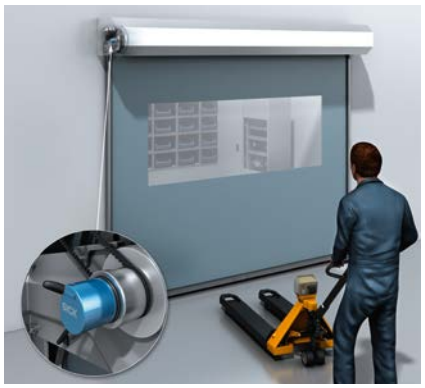


Monitoring of outdoor gates

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

→ www.sick.com/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

→ www.sick.com/DBS36_Core

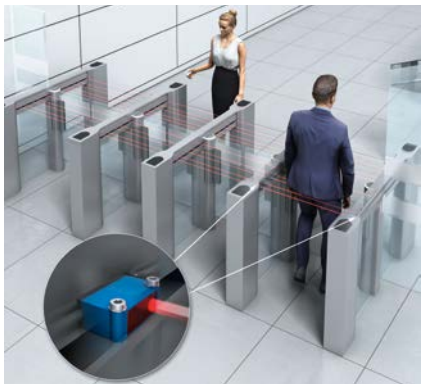
Protection of automated rolling gates

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

→ www.sick.com/L28

ACCESS GATES



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

➜ www.sick.com/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

➜ www.sick.com/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

➜ www.sick.com/MLG-2_ProNet

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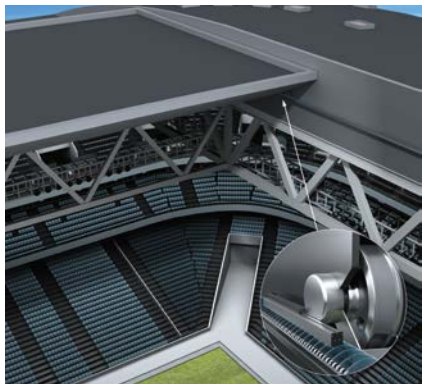
WINDOWS, ROOFS AND FACADES

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

➜ www.sick.com/microScan3_Core

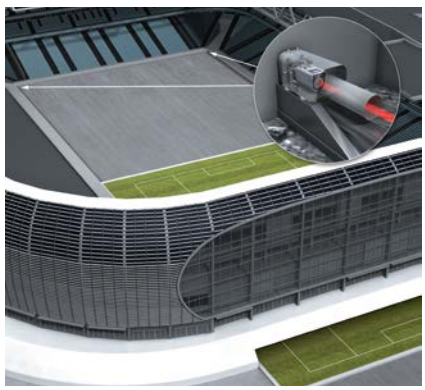


Positioning stadium roofs

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

- Linear encoder KH53

➜ www.sick.com/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

➜ www.sick.com/Dx1000

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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 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."

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