Sensing what matters.

Acting when it counts.

In an industrial building, a forklift approaches the elevator. No getting out. No button press. The sensor recognizes the situation. The elevator arrives exactly where it's needed. The doors open automatically. The forklift reaches its destination—without a single manual action. All made possible by ELFIN®VISION **Computer Vision Technology**.

- **Reliable detection of people and objects**
  with customized computer vision, even in challenging conditions: low light, tight spaces, or visual complexity.
- **Context-aware building reactions in real time**
  through integration with existing controllers and building systems.
- **Simple and GDPR-compliant integration**
  no proprietary building management system required, no cloud connection needed.

ELFINVISION

Learn more

elfin.de/vision
or mail to sales@elfin.de

Increased safety
through risk prevention and rapid, automated responses to misuse and dangerous situations

Resource efficiency
by automating processes such as risk monitoring around escalators or calling elevators

Improved user experience & operational efficiency
through smooth, intelligent workflows and context-based control and prioritization

GDPR-compliant

Autonomous system without cloud connection

Open interface to control & monitoring systems

For every elevator — new builds and modernizations alike

Vertical transportation systems recognize priority needs and passenger-specific requirements.

Example: Hospitals
In hospitals, sensors automatically identify beds, wheelchairs, or walkers. They detect the need for extended door opening times and communicate this to the elevator controller. If an object has been assigned priority status, the elevator is automatically called, and the ride is prioritized—without any manual input.

Examples of possible applications

- **Accident prevention** through detection of misuse and dangerous situations
- **AI-based elevator calls** triggered by object recognition
- Automatic allocation of **priority rides**
- **Detection of emergency situations**, number of passengers, and their condition inside the elevator
- Person detection on floors and inside the cabin as a **replacement for fire service elevator windows**

In addition to the built-in AI model, ELFIN®VISION sensors can be further trained to recognize specific objects, movements, or people relevant to a particular project. This enables the creation of customized solutions for each unique environment—with its own lighting conditions, visitor flow, movement patterns, and reflections.

Elevators and escalators independently detect dangerous situations and respond automatically.

Example: Airports
A plane lands. Passengers flood into the terminal. At the end of the escalator, some people stop, creating a potential backlog. Sensors detect the risk and trigger visual guidance on displays mounted near the escalator. If the situation doesn't resolve quickly enough, the escalator stops automatically—within seconds. No one pushed a button. The building responded on its own.

Example: Malls
In a shopping mall, a stroller approaches the escalator. Sensors detect unauthorized use and issue visual and/or audible warnings. If the warning is ignored, the escalator automatically stops. Without human intervention.

ELFIN Technology

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