

Leuze



DESTINATION

Airport Sensor Solutions



Sensor experts for automation technology



Application know-how

With over 60 years of experience made Leuze a real expert in innovative and efficient sensor solutions for airport logistics.



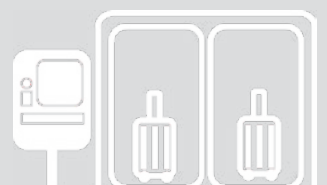
Sensor usability

When we develop innovative high-tech solutions, we attach great importance to the easy operation and handling of our products.



Application know-how

Our aim is to ensure the long-term success of our customers in a constantly changing industry. This objective guides our every step.



Aircraft Assembly and Maintenance



- ▶ Environmental machine safety and positioning sensors in lifting processes. For example: Providing area security with the RSL 400 in the LIFT process and location information with the **AMS** or **BPS**.
- ▶ Achieving success in storage systems with our Stacker Crane storage solution product ranges.
- ▶ Sensor solutions with the **RSL 400**, **MLC** and **solenoid door switches** for security in high risk areas that may occur in the maintenance area.
- ▶ In semi-automatic crane systems, collision safety (**HT 49** and **ODS** sensors), safe area **door switches**, the **AMS** and **BPS** depending on the process.

- ▶ Lifting equipment
- ▶ Storage systems
- ▶ Field Safety
- ▶ Crane processes



[AMS - Laser positioning system](#)



[BPS - Bar-code positioning system](#)



[MLC - Safety light curtain](#)



[Safety door switches](#)



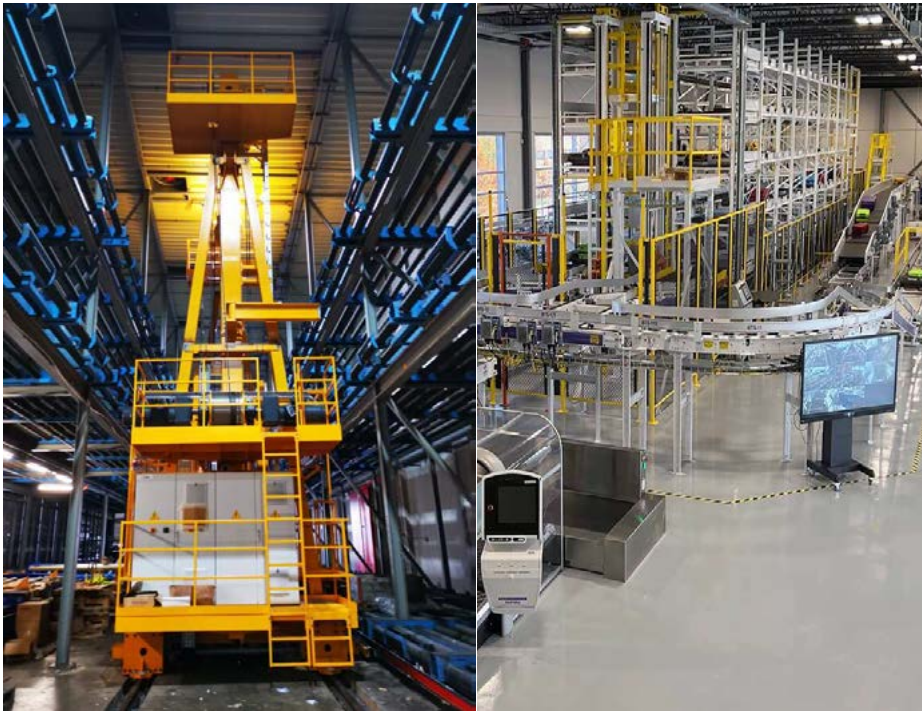
[49 C - Optical sensor](#)



[ODS - Optical distance sensor](#)

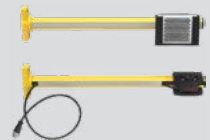


Optimised air freight logistics



- ▶ In Rising Transfer Vehicle and Stacker Crane process solutions. (BPS, AMS, DDLS, SR25, SR46 and ODS)
- ▶ Positioning sensors, area protection and perimeter security processes in Transfer Vehicles. (AMS, RSL 400, MLC and SR46)
- ▶ In conveyor systems, product detection, traceability, security process product solutions at transfer points. (**MLC Muting**, SR46, **BCL** and **MSI**)
- ▶ Mobile terminal equipment, handheld and industrial type barcode reader solutions for product traceability.
- ▶ Flexible loader systems, robotic transfer or telescopic conveyor sensor product solutions.

- ▶ **Elevating Transfer Vehicle**
- ▶ **Transfer Vehicle**
- ▶ **Conveyor Systems**
- ▶ **Mobile terminal equipment**



[Set-AC muting sensor set](#)



[BCL barcode reader](#)



[MSI safety controls](#)



Optimised air freight logistics



- In airport AGV systems, our routing solutions (**RSL425**), station transfer perimeter security. (MLC, MLD and **RSL 400**)
- Slave Pallets transfer stations, product detection and perimeter security.
- Sensor and switch solutions at Dolly Dock internal process transfer stations.
- Truck Dock, sensor transfer systems, switches and safe area product solutions. (**LS/LE46**, **RSL** and **IS230**)

- Flexloader
- AGV
- Slave Pallet Mover
- Dolly Dock
- Truck Dock



[RSL 400 - Safety rotary scanner](#)



[MLD Multiple light beam safety device](#)



[LS/LE 46C Throughbeam photoelectric sensor](#)



[IS 230 Inductive sensor](#)



Luggage ULD Transportation and Ground Services



- Potential for tracking products with barcodes in in-flight catering logistics (**hand-held barcode readers**) and parcel handling.
- Product detection and sorter sensor solutions in belt conveyor systems (SR46, SR5, SR25) Robotic transfer systems
- Robotic transfer systems, product solutions for loading baggage or cargo onto trays or pallets using robotic or axial system processes. (SR46, ODS, MLC, SR3)
- Productivity in field vehicles, product detection in ground service vehicles, determination of working times, proximity sensor solutions, personnel safety product solutions.
- **Beacons and tower lights** are built to withstand the heavy vibrations, harsh weather conditions, and dust inherent to airport environments.

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- In-flight catering logistics
- Parcel Handling
- Belt Conveyors
- Robotic transfersystems
- Efficiency in field vehicles



[1D/2D hand-held scanners](#)



[Low Intensity LED Aviation Obstruction Light](#)



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Sensor solutions for luggage transport



The task

Reliable object detection along the baggage conveyor, regardless of color and surface, with high insensitivity to ambient light, is essential in this application. Easy alignment with visible red light facilitates commissioning and maintenance.



The solution

The powerful **PRK 36D** and **RK 46C** retro-reflective photoelectric sensors with a large, highly visible light spot or light band ensure reliable detection even in different environments.



Added security: Securing baggage handling lines, passenger boarding bridges, or restricted staff access points. **Control units, limit switches,** and ergonomic **safety handles** are used to regulate machine guards and access points in sensitive logistical areas.

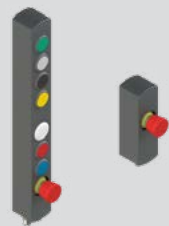
- Detection of baggage on belt conveyor
- Gate security



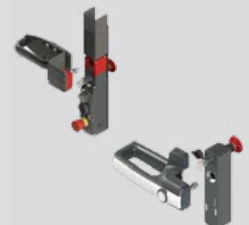
[PRK 36D](#)



[RK 46](#)



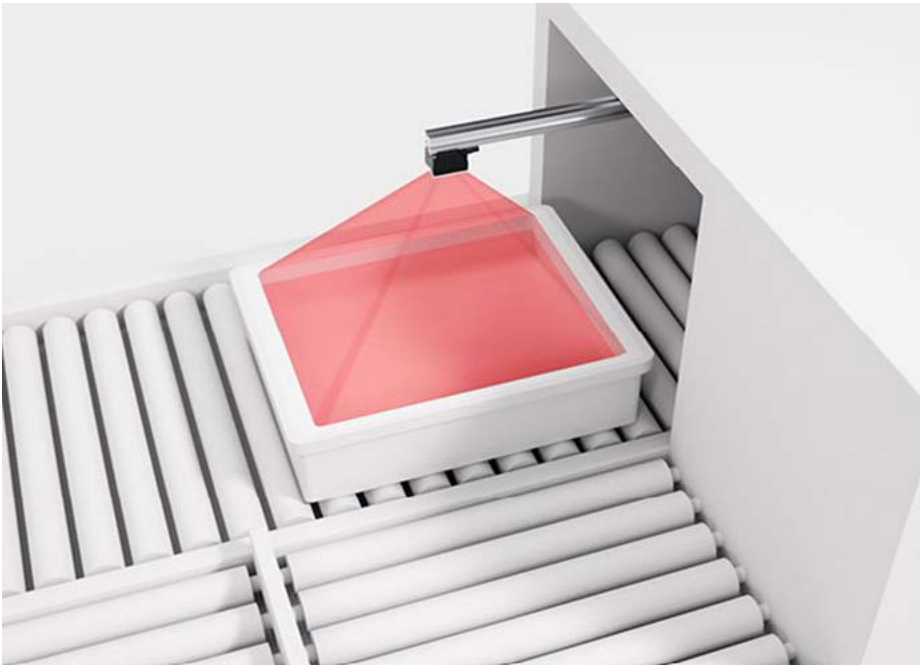
[Control device units](#)



[Safety handles](#)

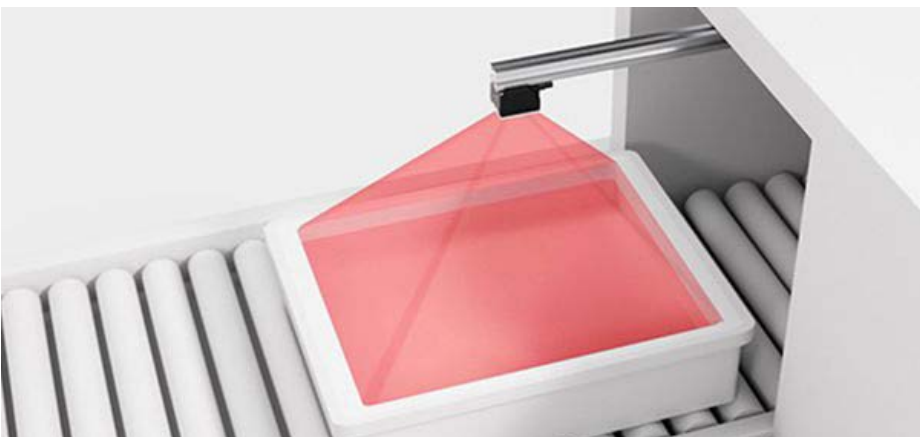


Sensor solutions for hand luggage security checks



The task

At the end of the hand luggage check, it must be ensured that the trays are empty before they are automatically returned and the process starts again.



The solution

A Simple Vision Sensor IVS 1000i can be configured in just a few clicks to check whether the trays are empty before issuing a release signal for their return transport.

- › Checking the empty status at the tray return



[IVS 1000i Vision sensor](#)



Sensor solutions for self-service luggage drop-off



The task

In the event of malfunctions in the process or incorrect operation, it must be ensured that an emergency stop causes the check-in station to stop.



The solution

An easy-to-install **MSI-SR** safety relay with a fixed function for connecting the **ESB 200** emergency stop and switching off the station. **Tower lights** from the A7 series or - if aluminum housing is required - TL305 are used to display the operating status.

- › Safety emergency stop and status display



[MSI-SR Safety relay](#)



[ESB 200 Emergency stop](#)



[A7 series](#)

[TL 305 series](#)

Tower lights



Global success stories



Core segment: Intralogistics

Project name: Product and People Access Control

Product/Pieces: **PRK5/4P-M8** (666 pieces) ,**TKS 40X60.A** (67 pieces) and **KD U-M8-4A-V1-020** (570 pieces)

Application: Access control on aircraft loading platforms

Our PRK5 series sensor, has been tested in outdoor environments, to control passage violations on loading and unloading platforms.

A light spot power of 5 meters and a distance of 1 meter was used and a solution was achieved.

► **Company**

TGS Yer Hizmetleri AŞ



PRK5/4P-M8

Retro-reflective photoelectric sensor



TKS 40X60

Reflector



KD U-M8-4A-V1-020

Cable



Global success stories



Project name: Plane wheel existence/ non existence

Product/Pieces: **LS25CI.XR1/XX** and **LE25CI.XR1/4P**

Application: Aircraft wheel detection in all weather conditions, dust and dirty environments

A solution was provided as a wheel position information sensor in aircraft transport tractors.

High performance in dusty and dirty environments with its powerful light and long-distance light spot feature.

► **Company**

TGS Yer Hizmetleri AŞ



[LS25CI.XR1/XX](#)
Transmitter



[LE25CI.XR1/4P](#)
Receiver





Leuze

Leuze sensors are designed for the food and beverage industry focus on hygienic design, high resistance to cleaning agents, and reliable detection in demanding, high-speed environments. Key features include stainless steel housings (V4A/AISI 316L), IP69K protection, and ECOLAB certification



Safety at Leuze

Leuze safety products for the food and beverage industry are characterized by their ability to withstand harsh cleaning environments while maintaining high hygiene standards (Hygienic Design). Key features include IP69K protection, FDA-compliant materials, and resistance to aggressive, caustic cleaning agents, ensuring safe operation in “wash-down” areas



Pizzato Elettrica products, widely used in the food and beverage industry, are designed to meet strict hygiene, safety, and durability requirements, including IP67/IP69K ingress protection for washdown environments, AISI 316L stainless steel construction, and RFID-based tamper-proof technology.



Haake Technik provides specialized safety solutions for the food and beverage industry, focusing on mechanical reliability and hygienic design. Their HST Trapped Key Interlocks and HSB Safety Bumpers are engineered to withstand the rigorous cleaning and environmental demands of food processing facilities.



TR-Electronic provides specialised measurement and control solutions tailored for the food and beverage industry, focusing on maintaining sterile environments and ensuring equipment reliability under harsh cleaning conditions. TR-Electronic's encoders for this sector are designed to withstand aggressive cleaning agents and high-pressure washdowns.



Qlight signalling devices for the food and beverage industry are engineered to meet stringent hygiene, safety, and durability standards, often featuring high-pressure washdown resistance, corrosion resistance, and modular, hygienic designs. Key features include IP67/IP69K protection ratings, stainless steel housing options, and LED technologies that ensure visibility while resisting harsh sanitation chemical agents.



Pinnacle safety mats for the food and beverage industry are primarily designed as pressure-sensitive machine safeguarding systems. These mats, such as the Pinnacle NSD (New Switching Device) system, are used to detect workers near hazardous machinery and trigger immediate stops.