

# ELOshield

Proximity Detection System

## THE INNOVATIVE “PROTECTIVE SHIELD” FOR INDUSTRIAL VEHICLES, AGVS AND COBOTS

- + Reliable detection of pedestrians working around industrial vehicles
- + Flexible, configurable protection zones for hazardous areas
- + For any industrial vehicle type, brand or age
- + Pedestrian-to-vehicle and vehicle-to-vehicle warnings
- + OEM-independent, ideal for mixed fleets

DRIVER  
ASSISTANCE  
SYSTEM

**ELOKON**  
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Award-winning solution



# Accident Prevention

## For employees and vehicles

High-volume material handling requires fast, efficient logistical processes. In large warehouses where multiple lift trucks and staff work together, accidents still happen, despite precautions. High-risk zones include aisle intersections and congested areas with limited lines of sight, like docks, doorways, and building entrances.

Designed specifically to prevent lift truck accidents, ELOshield's effectiveness and reliability have been proven around the world. This active protection system is ideal for reach and counterbalance trucks. ELOshield also works on AGVs (automated guided vehicles), robots, cobots (collaborative robots) and other industrial vehicles. By helping avoid accidents, ELOshield improves the reliability and efficiency of material handling operations, and reduces costs.

## INTELLIGENT SAFETY TECHNOLOGY

### For all hazardous areas in warehouses

ELOshield's intelligent technology monitors the environment in real time. As soon as a vehicle reaches a monitored area, ELOshield can detect potential collisions and react instantly. The safety system triggers an acoustic, visual or vibration warning signal within milliseconds. Depending on the individual setting, ELOshield can also actively restrict the driving mode: vehicle speed can be reduced automatically if the vehicle supports this function. When the vehicle leaves the "protection zone", speed restrictions can be lifted.

The ultra-wideband signal is accurate up to 4 inches and is transmitted through walls and shelves.



## FLEXIBLE WARNING AND PROTECTION ZONES

### Optimized safety for increased productivity

The standard ELOshield version includes preventative accident protection with two individually configurable detection areas: a warning zone and a protection zone. They can be set up as circular, symmetrical, or in custom user-defined fields.

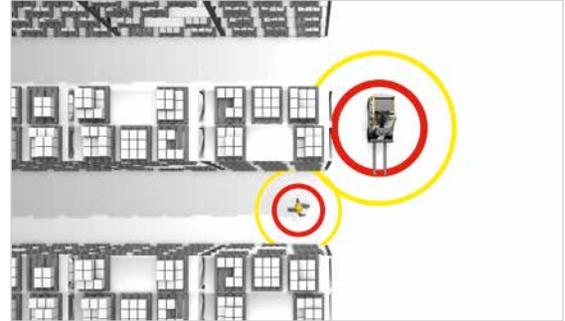
**The advantage:** For example, by automatically restricting the protective field to their own lane, lift trucks can safely pass other vehicles or pedestrians when encountering traffic without triggering a false alarm. When setting up „customized zones“ it is possible, among other things, to define different zones on the load side and on the drive side of the vehicle.

## ONE SOLUTION – ENDLESS POSSIBILITIES

### 1 **ELOshieldGO** Radio-based protection - from vehicle to pedestrians

The working areas of vehicles and staff in the warehouse cannot be completely separated. ELOshield offers radio-based personnel protection in order for man and machine to be able to safely operate side by side.

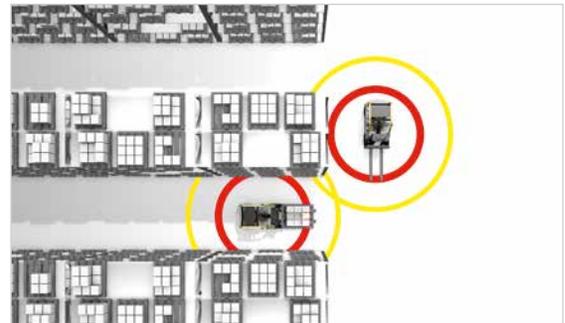
The driver assistance system prevents collisions by issuing a warning signal or slowing down the vehicle as soon as an employee is in the hazardous zone.



### 2 **ELOshieldDRIVE** Safe collision protection - from vehicle to vehicle

ELOshield provides reliable anti-collision protection between vehicles. Vehicles are equipped with an additional detection module, individually programmed to ensure that the vehicle's detection range is tailored for its local operating conditions.

If vehicles are about to collide, ELOshield automatically triggers a warning signal or limits the vehicle speed.



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#### Different warning signals

for each hazardous zone with custom configurations

#### Individually adjustable personnel modules

with different warning signals per module

#### Modular design

flexible combination of functionalities

#### Large hazardous areas

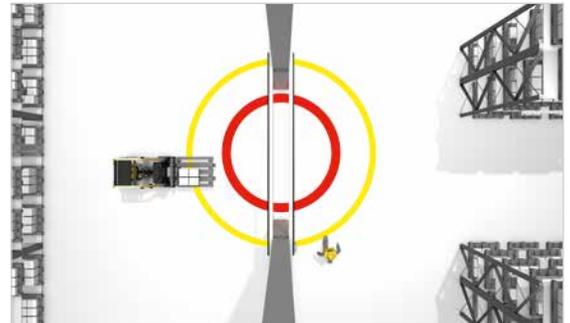
secured with minimal technology use

### 3 ELOshieldZONE Monitoring aisle crossings and vulnerable areas

ELOshield regulates vehicle traffic like a traffic cop. Fixed-position modules monitor hazardous areas such as aisle intersections and building entrances.

When a vehicle approaches, ELOshield can trigger a warning signal or – on request – driving speed can be reduced automatically.

Thanks to individually adjustable ranges, it is possible for two vehicles to enter an intersection at the same time or to restrict the entrance for certain gates.

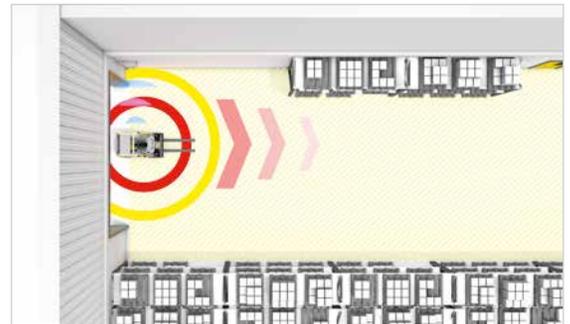


### 4 ELOshieldSPEED Automatic speed adjustment in high-risk areas (hazardous zone protection)

Where the risk in warehouses or production is particularly high, for example because mobile robots, FTS and humans work in close proximity, individual hazardous zones can be defined in this version of ELOshield.

Vehicles entering the zone are automatically slowed down to the intended speed. As soon as the vehicle leaves the defined area, the original speed is automatically resumed.

Special zones, such as picking areas in warehouse or the entire warehouse, can be defined as hazardous areas.



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