

## THE INNOVATIVE “PROTECTIVE SHIELD” FOR LIFT TRUCKS

- + Reliable detection of pedestrians working around lift trucks
- + Flexible, configurable protection zones in hazardous areas
- + Pedestrian modules cover up to 500 workers simultaneously
- + Pedestrian-to-vehicle and vehicle-to-vehicle warnings
- + Detection range up to 80 feet
- + Compatible with all major lift truck models

**NEW ZONING VERSION**  
MAKES AISLE INTERSECTIONS, DOORWAYS  
AND BUILDING ENTRANCES SAFER



# 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.

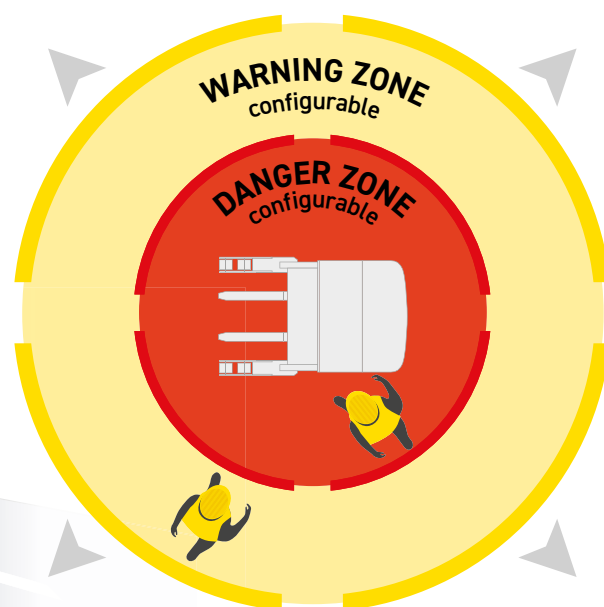
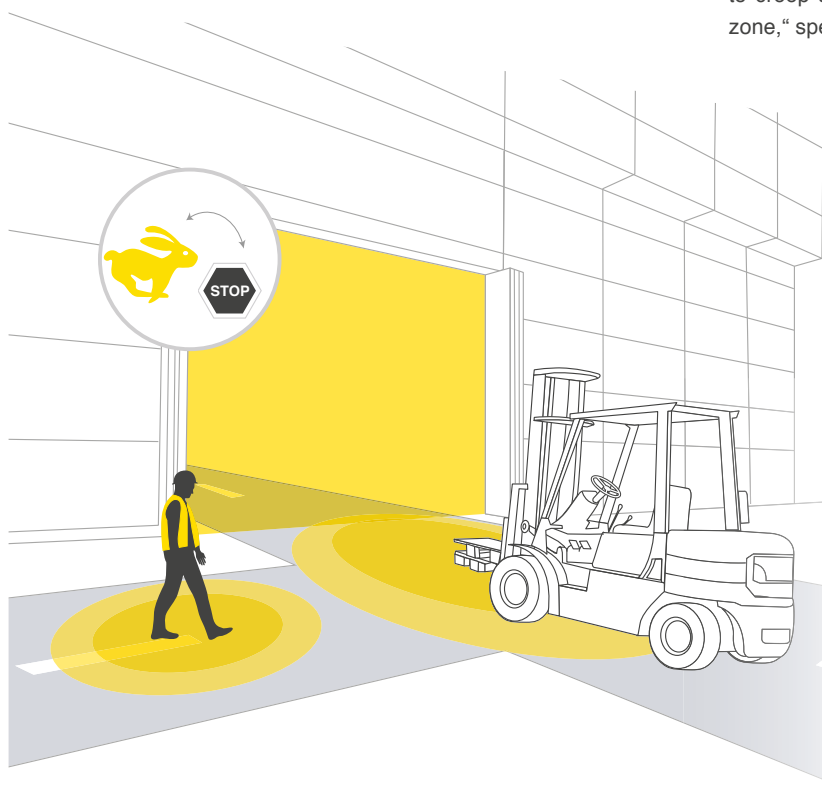
Designed specifically to prevent lift truck accidents, ELOshield's effectiveness and reliability has been proven around the world. It's active protection system is ideal for reach and counterbalance trucks. By helping avoid accidents, ELOshield improves the reliability and efficiency of material handling operations, and reduces costs.

## INDIVIDUALLY CONFIGURABLE

ELOshield provides advanced configurable warning zones for optimal protection of workers and equipment. Zones can be shaped as circles or, optionally, user-defined fields, like symmetrical rectangles or asymmetrical polygons. It is even possible to customize different zones on the load side and drive side of a lift truck. Detection range is adjustable up to 80 feet. Both vehicles and pedestrians are automatically alerted when they get too close to each other, preventing collisions. ELOshield technology also prevents false alarms.

## INTELLIGENT SAFETY TECHNOLOGY FOR ALL HAZARDOUS AREAS IN WAREHOUSES

ELOshield's intelligent technology monitors the environment in real time. As soon as a lift truck 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 to creep speed (1.5 MPH). When the vehicle leaves the "protection zone," speed restrictions can be lifted, if the customer chooses.



## FULL FLEXIBILITY: 1 APPLICATION - 3 OPTIONS

### 1 Radio-based protection - from lift truck to pedestrians

ELOshield detects pedestrians within a range of 3 to 50 feet. Two areas (protective zone and warning zone) can be set up to trigger different system reactions (e.g. slowing to creep speed).

There are no blind spots, and multiple pedestrians can be detected simultaneously, thanks to intelligent RFID technology.



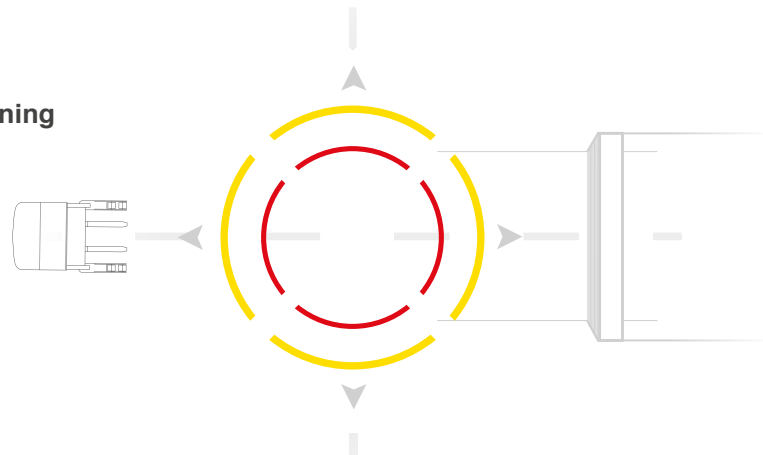
NEW

As a system failsafe, a **verification unit** can automatically check and confirm the health and proper functioning of each pedestrian module.

### 2 Monitoring aisle crossings and vulnerable areas - Zoning

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

When a lift truck approaches, ELOshield can trigger a warning signal or – on customer request – driving speed can be limited automatically.



NEW

Thanks to a new, configurable **Custom Zone** option, detection ranges can be individually adjusted to customer requirements, including symmetrical rectangles and asymmetrical polygons. Unlike circular zones, these Custom Zones enable two vehicles to enter an intersection safely at the same time without triggering an alarm. Access to doorways can also be limited locally.

### 3 Safe collision protection - from lift truck to lift truck

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

If lift trucks are on a collision course, ELOshield automatically triggers a warning signal or limits the vehicle speed.



## SMALL, SMART AND SAFE

ELOshield includes a central control module, installed on each vehicle along with at least two antennas, and compact transponders worn by pedestrians. The devices communicate with each other via high-frequency wireless technology, allowing the system to establish and monitor protection zones around both vehicles and people. In addition, a fixed-position module is available to regulate lift truck traffic safely at aisle intersections, doorways and building entrances.

## SYSTEM COMPONENTS

✓ Truck Module



✓ Pedestrian Module



✓ Antenna



✓ Fixed-Position Module



## TECHNICAL SPECIFICATIONS

	Truck Module	Antenna	Pedestrian Module	Fixed-Position Module
<b>Dimensions</b>	120 x 125 x 35 mm	85 x 58 x 35 mm	64 x 125 x 14 mm	110 x 150 x 40 mm
<b>Enclosure rating</b>	IP 65	IP 65	IP 54	IP 65
<b>Power supply voltage</b>	12-48 V DC, 4W (including 2 antennas)	via the truck module	battery powered (up to 12 hours continuous operation)	230 V AC, 10 W
<b>Warning signal</b>	acoustical, optical and 4 NO / NC outputs		acoustic, visual or vibration signal (configurable)	acoustic, visual and 4 NO / NC outputs
<b>Operating temperature</b>	-25°C to +60°C Condensing humidity below 95%	-25°C to +60°C Condensing humidity below 95%	-10°C to +60°C Condensing humidity below 95%	-25°C to +60°C Condensing humidity below 95%
<b>Range</b>		3 to 80 feet	3 to 50 feet	3 to 80 feet

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