

THE INNOVATIVE „PROTECTIVE SHIELD“ FOR REACH AND COUNTERBALANCE FORKLIFT TRUCKS

- + Reliable detection of persons in the danger area of forklift trucks
- + flexibly configurable protection in hazardous areas
- + transponders covering up to 500 employees available
- + collision warning from forklift truck to forklift truck
- + range up to 25 metres

NEW: ZONING VERSION
MAKING SAFE JUNCTIONS AND GATEWAYS



Winning solution:



Accident prevention

For employees and vehicles

High volume goods handling requires fast logistical processes. In larger warehouses where multiple forklift trucks and staff work simultaneously, accidents still happen despite precautions. There are dangerous and unclear spots, e.g. junctions in every warehouse operation.

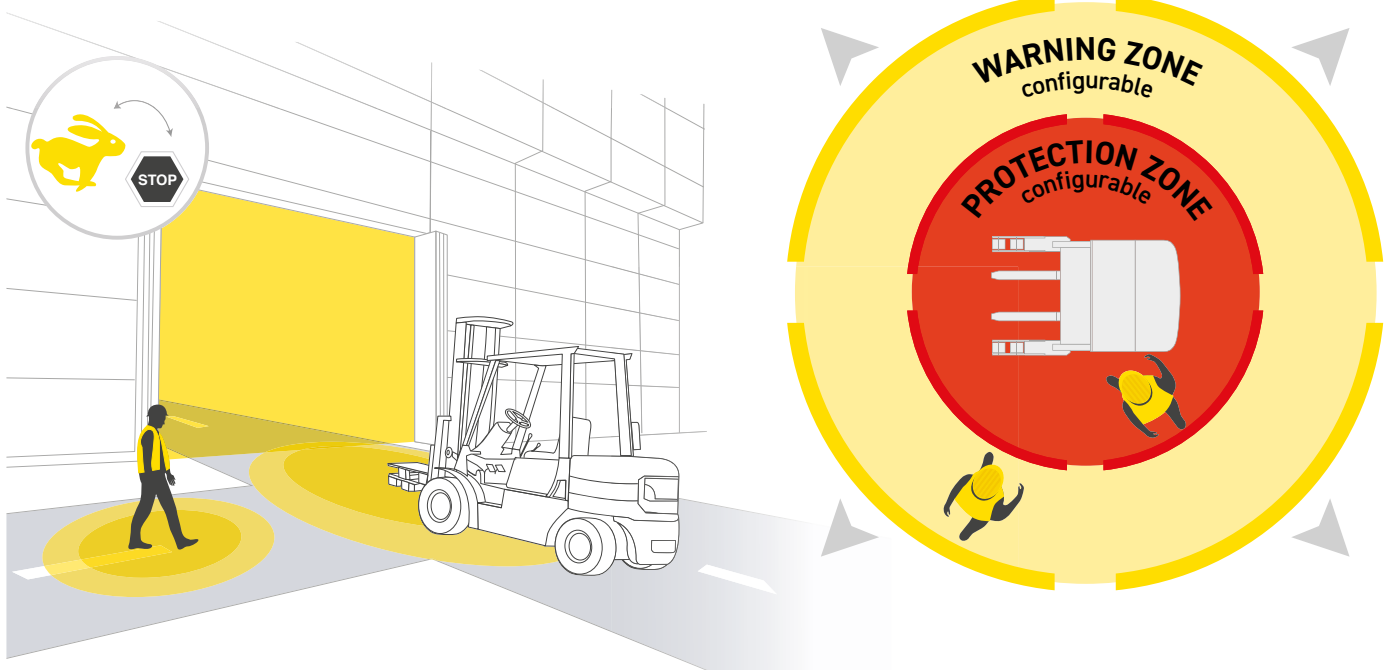
ELOshield has been specifically designed for the prevention of accidents and has proven itself internationally. This active protection system is ideally suited for use on reach and counterbalance forklift trucks. It increases operational reliability, improves productivity with smooth, efficient processes, and helps reduce costs.

INDIVIDUALLY CONFIGURABLE

Individually configurable protection zones: ELOshield offers accident prevention using sophisticated warning zones. These zones can be programmed circularly, symmetrically (optional) - and **NOW AVAILABLE** - even user-defined fields (optional) with a maximum range of up to 25 metres. The advantage: forklift trucks can safely pass other vehicles or pedestrians as they are automatically limited to their own path by the protective zone surrounding them, without causing false alarms. With ELOshield Customized Zones it is possible to define different zones on the load side and on the drive side.

INTELLIGENT SAFETY TECHNOLOGY FOR ALL HAZARDOUS AREAS IN WAREHOUSES

The intelligent ELOshield technology monitors the environment in real time. As soon as a forklift truck reaches a monitored area, ELOshield detects the danger and reacts even faster. The safety system triggers an acoustic, visual or vibration warning signal within milliseconds. Depending on the individual setting, it also actively restricts the driving mode: the vehicle speed can either be reduced automatically to creep speed (2.5 km/h) or the vehicle speed is reduced until the vehicle comes to a halt. After exiting the danger zone, speed restrictions are lifted on customer request.



FULL FLEXIBILITY: 1 APPLICATION - 3 OPTIONS

1 Radio-based protection - from forklift truck to person

ELOshield detects pedestrians with a range of 1 to 15 metres. Two areas (protective zone and warning zone) can be set up to trigger different occurrences (for example, walking speed then standstill).

There is no blind spot and multiple persons can be detected simultaneously, thanks to intelligent RFID technology.



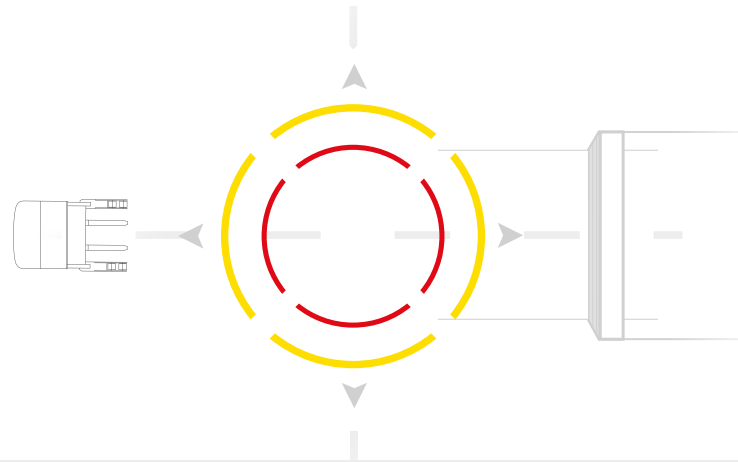
NEW

A permanently fitted **verification unit** can check the functionality of the personal modules as additional protection.

2 Monitoring crossings and vulnerable areas - Zoning

ELOshield regulates the forklift truck traffic like a traffic sign. Fitted transponders monitor dangerous areas such as crossings and gateways.

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



NEW

Thanks to the newly configurable **Customised Zones**, ranges can be individually adjusted to customer requirements: symmetrical (optional) or user-defined (optional). Unlike circular zones, for instance symmetrical zones enable two vehicles to enter a junction safely at the same time without triggering an alarm. Also, access for certain gates can be limited locally.

3 Safe collision protection - from forklift truck to forklift truck

ELOshield offers safe collision protection from forklift truck to forklift truck. For this purpose, they are fitted with an additional detection module and individually programmed to ensure the range reflects the operating conditions.

In case forklift trucks are on a collision course, ELOshield automatically triggers a warning signal or limits the vehicle speed and, if necessary, stops the vehicle.



The ELOshield ranges: ■ Protective zone ■ Warning zone

SMALL, SMART AND SAFE

The ELOshield system includes a central control module, which is installed on the vehicles together with at least two antennas. In addition, compact transponders are used as personal modules, which must always be carried by staff for their protection. Communication between the devices takes place via high-frequency technology. Thus, ELOshield monitors the danger zones around vehicles and pedestrians. In addition, a stationary module is available, which is permanently installed in dangerous and unclear zones such as gateways or crossings to safely regulate forklift truck traffic.

PRODUCT COMPONENTS

✓ ELOshieldDRIVE (Truck Module)



✓ Antenna



✓ ELOshieldGO (Pedestrian Module)



✓ ELOshieldBASE (Fixed-Position Module)



TECHNICAL SPECIFICATIONS

	Truck Module	Antenna	Pedestrian Module	Fixed-Position Module
Dimensions	120 x 125 x 35 mm	85 x 58 x 35 mm	64 x 125 x 14 mm	110 x 150 x 40 mm
Enclosure rating	IP 65	IP 65	IP 54	IP 65
Power supply voltage	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
Warning signal	acoustical, optical and 4 NO / NC outputs		acoustic, visual or vibration signal (configurable)	acoustic, visual and 4 NO / NC outputs
Operating temperature	-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%
Range		1 to 25 metres	1 to 15 metres	1 to 25 metres

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