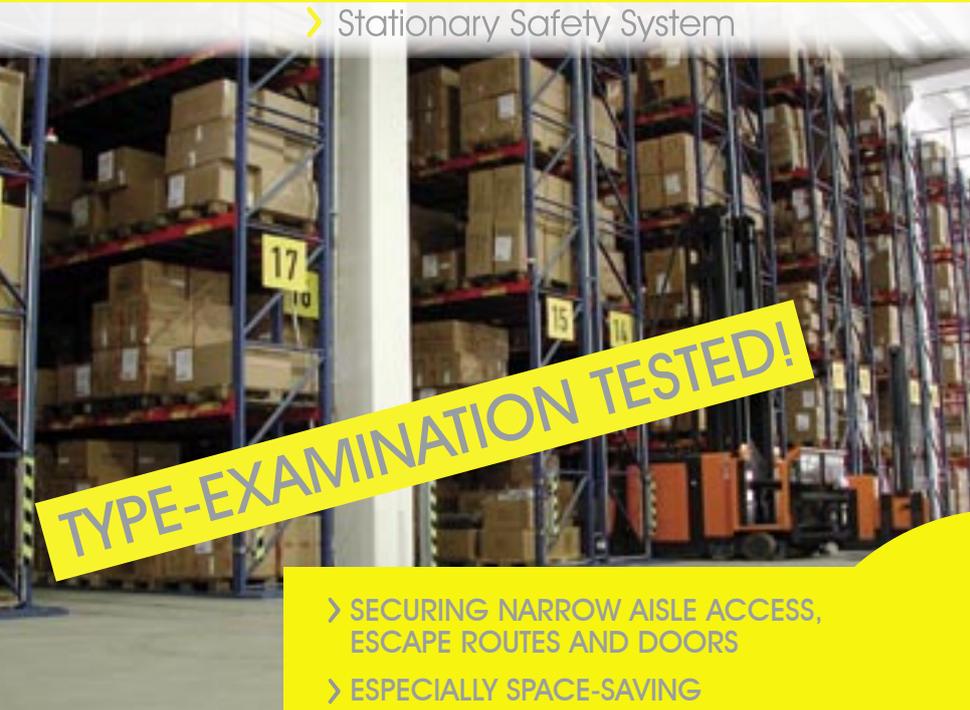


ELObar

> Stationary Safety System



- > SECURING NARROW AISLE ACCESS, ESCAPE ROUTES AND DOORS
- > ESPECIALLY SPACE-SAVING
- > SIMPLE, DECENTRALISED OPERATION
- > SAFETY STANDARD COMPLIES WITH EN ISO 13849-1 (PERFORMANCE LEVEL "d")
- > LATEST CAN BUS TECHNOLOGY

PERSONAL PROTECTION IN NARROW AISLES

The ELOKON Stationary Safety System **ELObar** is an automatic working safety device. It protects persons when fork lift trucks are deployed in very narrow aisles and is officially accepted as a risk-reducing measure when operating a very narrow aisle warehouse.

The **ELObar** components are fitted to the narrow aisle entrances, the escape routes and doors and register every fork lift truck and pedestrian entering the very narrow aisle.

Operations in the narrow aisle are thus controlled and hazardous conditions prevented from arising.

The **ELObar** is a safety system designed according to ISO 13849-1 and complies with the requirements for PL d (Performance Level).

EFFECTIVE HAZARD RECOGNITION

Pedestrians and fork lifts are recognised by safety light barriers integrated inside the active columns. An optical and acoustic alarm is triggered if the light barrier is interrupted by a pedestrian or a fork lift truck when the aisle is occupied or closed. In double-sided aisles the alarm is triggered at both entrances to the narrow aisle affected.

The fundamental rule is: as soon as at least one red lamp on an active column illuminates or flashes, entering the aisle either on foot or with a fork lift truck is prohibited.



SIMPLE AND SAFE!

The **ELObar** consists of one twin-beam safety light barrier per narrow aisle entrance which is formed by an active and a passive column. In addition, one „stationary fork lift recognition module“ (ISE) is fitted on the racking at each aisle entrance and a „mobile fork lift recognition module“ is mounted on every fork lift.

By means of the fork lift recognition it can therefore be determined whether a fork lift is entering or leaving the narrow aisle. Due to a very compact design the columns can be ideally placed in the vicinity of the narrow aisle entrance.

All columns are interconnected via a CAN bus system. The linear structure of the bus guarantees that installation requires minimal effort. A central module supplies all stationary components with the necessary operating current (24 V/DC).

If escape routes are present inside the very narrow aisles they are secured through special swing doors. If these are used by a pedestrian a horn triggers an alarm signal.

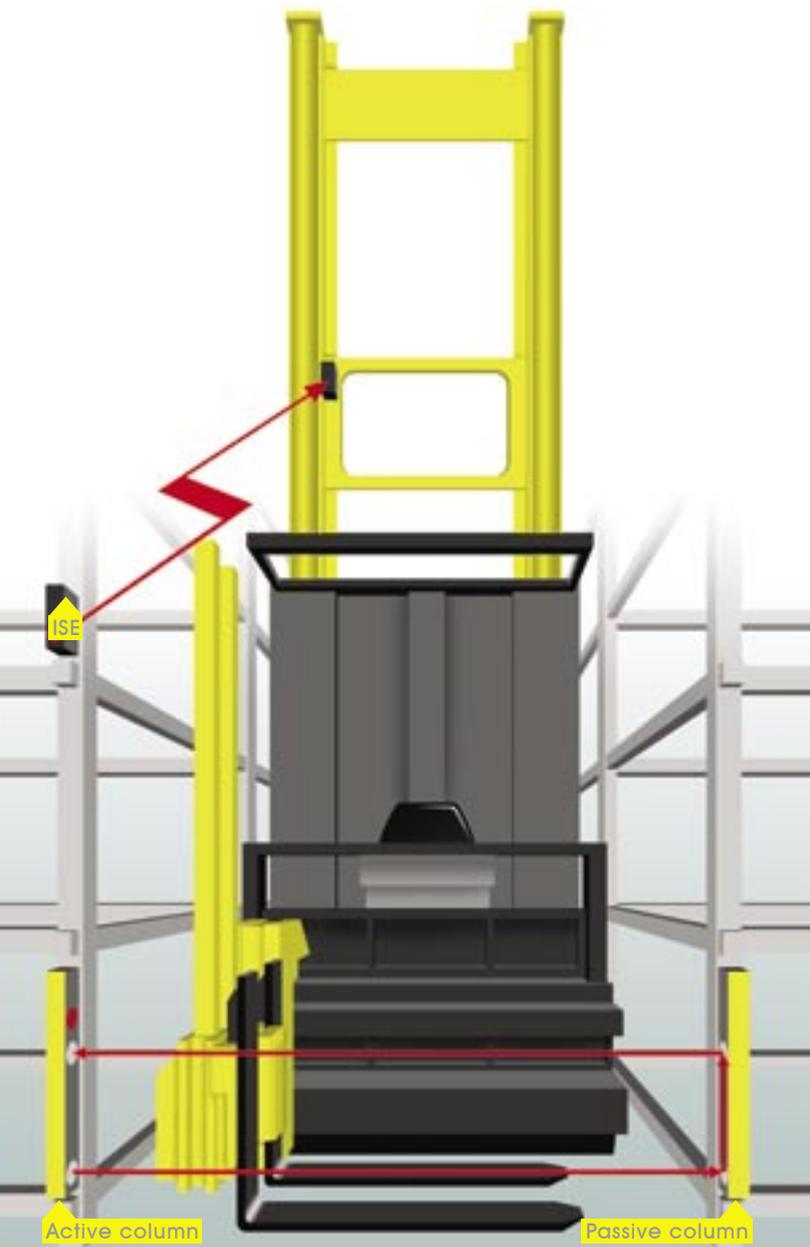
Also emergency exit doors are secured in a similar way: if a pedestrian uses them an alarm is triggered. Please note that these two modules for the eascape routes and the emergency doors don't have to be connected to the CAN-bus and to the central power supply. They are battery-operated which simplifies installation and minimises costs.

INSTALLATION AND SERVICE

The **ELObar** is installed and put into service by trained ELOKON staff. The following prerequisites on-site must be fulfilled:

- › 230 V on two phases, each secured with 16 A, must be provided on-site at a central location.
- › The power supply cables and those for the CAN bus must be already laid between a central location and the narrow aisle entrances.
- › Lifting platforms or equivalent and also operating personnel must be available during installation if special skills should prove to be required.

ELOKON technicians also offer support after installation and handover are completed. We guarantee competent and optimum support by our technical field service during the entire working life of the product. Value retention is ensured and standstill times minimised by professional maintenance, checks and repairs from one source.



TECHNICAL DATA

Resolution:	500 mm (a deflected beam 400 mm and 900 mm above the ground)
Max. distance between active/passive column:	6000 mm
Reaction time:	< 200 ms
Protection type in accordance with EN 60529:	IP 54
Operating temperature:	-15°C bis +55°C Optional: -30°C bis +55°C
Humidity:	95% at 20°C
Central unit power supply:	230 V / 50 Hz from 2 phases
Active column power supply:	24 V
ISE power supply:	shelf-side: 24 V vehicle-side: 12 - 48 V (optional 80 V)
Column / dimensions (WxDxH):	75 x 90 x 1150 mm
Fork lift recognition / dimensions (WxDxH):	121 x 103 x 171 mm
Swing doors for escape routes / width:	from 1000 to 1800 mm

The ELObar can optionally take on further functions:

- › Escape door monitoring
- › Escape route monitoring

