

ELObar

Stationary Safety System

FIXED

PERSONAL PROTECTION SYSTEM

FOR MATERIAL HANDLING EQUIPMENT
IN VERY NARROW AISLES

- + Maximum safety for people and vehicles
- + Very compact design
- + Simple, decentralised operation
- + ISO safety standard
- + State of the art technology

TYPE-EXAMINATION TESTED



Fixed protection system for very narrow aisles and escape routes

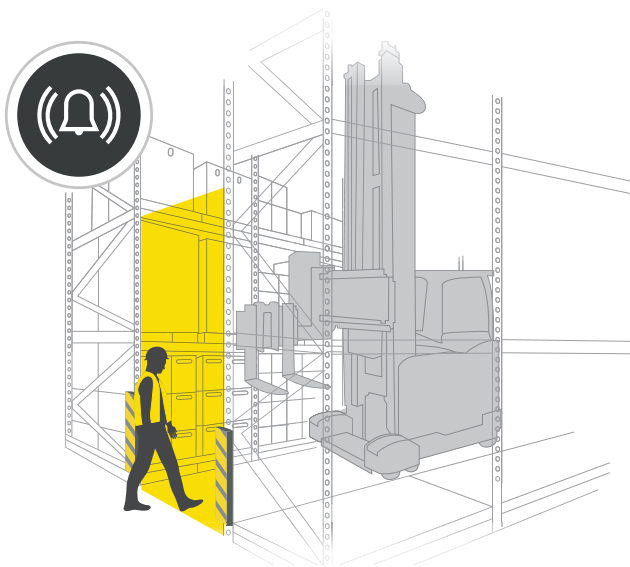
ELOKON's fixed ELObar personnel safety system protects pedestrians from accidents with forklift trucks (MHE) in very narrow aisles (VNA) environments.

This safety solution has been recognised as a risk-limiting measure for warehouses. Corresponding ELObar components are to be fitted to all narrow aisle entrances, escape routes and doors and will register every forklift truck and pedestrian entering. Thus, operations in the very narrow aisle environment can be safely controlled and dangerous situations prevented. The ELObar safety system design is in line with ISO 13849-1 and complies with the requirements for PL d (Performance Level).

EFFECTIVE PROTECTION

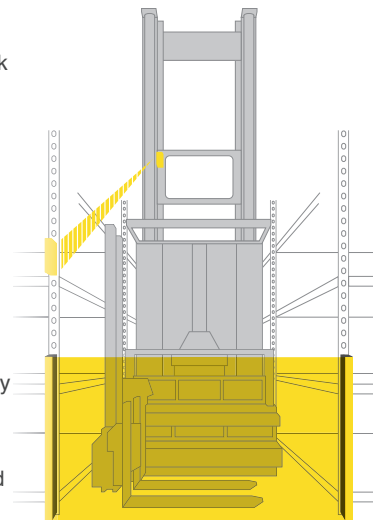
The fixed protection system ELObar is installed outside the entrances of the narrow aisles. In case a pedestrian enters a narrow aisle where a forklift truck is present, a visual and acoustic alarm will be triggered. Vice versa an alarm will be triggered in case a forklift enters a narrow aisle where pedestrians are present.

For both drivers and pedestrians the same applies: do not enter when a red light flashes on the columns at the narrow aisle entrances.



SIMPLE AND SAFE!

ELObar consists of a twin-beam safety light barrier using an active and a passive column. Additionally, an infrared forklift recognition module (ISE) is fitted to each aisle access and the ISE vehicle version is attached to each forklift truck. Using forklift truck recognition, the system detects whether a forklift truck is entering or exiting a narrow aisle. Due to the very compact design, the columns can be easily placed at the narrow aisle entrances. All columns are interconnected using a CAN bus system. A central module ensures that all light barriers are adequately powered. In addition, escape routes relying on swing doors and emergency exit doors will be safe using battery powered sensors and alarm horns. Hence, no mains connections will be necessary, which simplifies fitting and reduces costs.



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FURTHER USE

ESCAPE DOOR MONITORING

ESCAPE ROUTE MONITORING

TECHNICAL SPECIFICATIONS

Resolution	500 mm (deflected beam 400 mm and 900 mm above the ground)		
Max. distance between active / passive column	6000 mm		
Reaction time	< 200 ms		
Protection type (EN 60529)	IP 54		
Betriebstemperatur	-15°C bis +55°C		
Forklift truck recognition (WxDxH)	121 x 103 x 171 mm	Column (WxDxH)	75 x 90 x 1150 mm
Swing doors for escape routes	from 1000 to 1800 mm width	Humidity	95% at 20°C

ELObar twin-beam safety light barrier



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