

► Safety laser scanner PSENscan: Productive area monitoring – including in series!

PSENscan

The safety laser scanner PSENscan offers two-dimensional area monitoring with an opening angle of 275 degrees and a protected field range of up to 5.5 metres. Thanks to the free configuration of warning fields and protected fields as well as adaptation to structural conditions, the scanner can be optimally integrated into the widest range of applications. An integrated operator display provides information directly. The exchangeable storage medium allows you to transfer your configuration at any time.

Combining with configurable small controllers PNOZmulti or controllers PSSuniversal gives you a cost-effective, complete, one-stop solution.



Your benefits at a glance

- Large opening angle of 275 degrees
- Always the right operating range: unit types with protected field ranges of up to 5.5 metres
- Easy to integrate into the application: compact housing as well as free configuration of the protected fields and warning fields including adaptation to structural conditions
- Integrated operator display for receiving information directly
- High availability as it is resistant to dust
- Simple assembly and alignment of scanner with the appropriate accessories

Available shortly:

- Up to three separate zones can be monitored simultaneously with just one scanner and up to 70 selectable configurations can be set up
- Reduction of cabling and setup costs and requirements: series connection of up to four scanners according to the master-slave principle
- Exchangeable memory for transferring the configuration

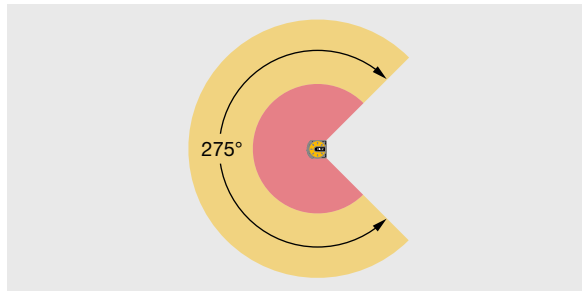


► Optimum safeguarding of danger zones

Stationary or mobile safeguarding of danger zones as well as access monitoring – the safety laser scanner PSENscan offers the optimum solution for your application.

Two-dimensional area monitoring

The safety laser scanners PSENscan provide two-dimensional area monitoring with an opening angle of 275 degrees. Protected fields and warning fields can be freely defined and adapted to structural conditions. As a result, laser scanners PSENscan can easily be integrated into the most varied of applications.



Easy to integrate into the application: free configuration of the protected fields and warning fields, including adaptation to structural conditions.

Stationary safeguarding of danger zones

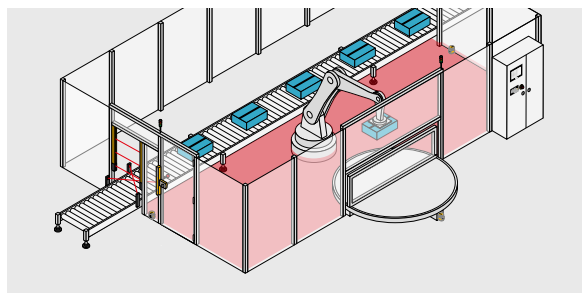
Applications that involve interaction between man and machine place high demands on the safety solution. Safety laser scanners PSENscan detect when someone is approaching a hazardous movement. Entry into a warning field causes controlled braking of the hazardous movement; entry into the protected field causes the hazardous movement to be stopped.



Safe detection of persons in the danger zone for controlled braking of the hazardous movement.

Encroachment from behind

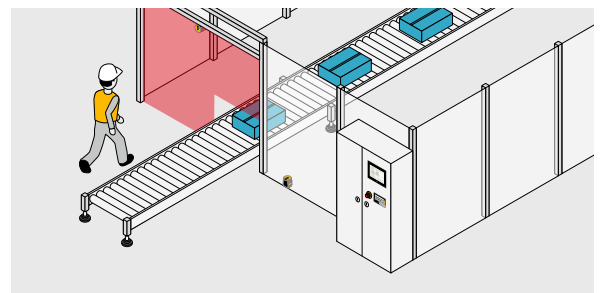
A reliable safety concept is indispensable particularly in danger zones where visibility is poor, e.g. in the case of robot applications. Safety laser scanners PSENscan detect the presence of a person in the danger zone and prevent the hazardous movement from restarting.



PSENscan fulfils two requirements at the same time: danger zone safeguarding and restart monitoring.

Access protection

A flexible solution is needed to safeguard access to danger zones in the widest range of applications. Safety laser scanners PSENscan provide optimum protection against access of persons, but that's not all; thanks to integrated muting inputs they are also suitable for applications in which material is transported in and out simultaneously.



Distinction made between humans and material, ensuring the safe infeed and outfeed of material.

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soon!

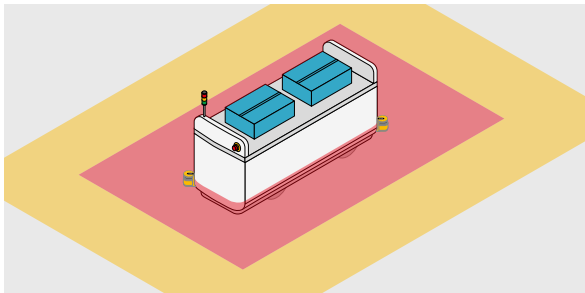
► Safeguarding of automated guided vehicles

Reliable safeguarding of automated guided vehicles (AGV) is required in order to protect people and objects from harm. Safety laser scanners PSENscan detect objects on the vehicle's route and guarantee maximum safety, even at high speeds, without compromising productivity.

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Safe all round

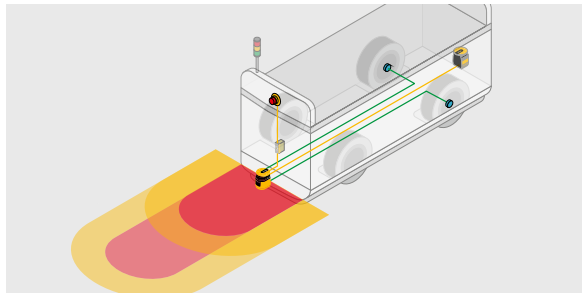
AGVs can enjoy all-round protection with just two safety laser scanners. The safety laser scanners detect objects in the vehicle's path and ensure that the AGV brakes in good time.



All-round protection of AGV with just two safety laser scanners.

Always the right protected field

If the vehicle's speed should change, then the danger zone changes too. Integrated encoder inputs enable the protected fields and warning fields to be adapted to the current speed, so avoiding unnecessary stops.

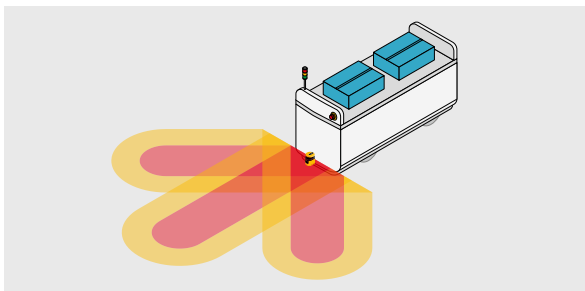


Protected field and warning field adapted to travel speed.

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Safe cornering

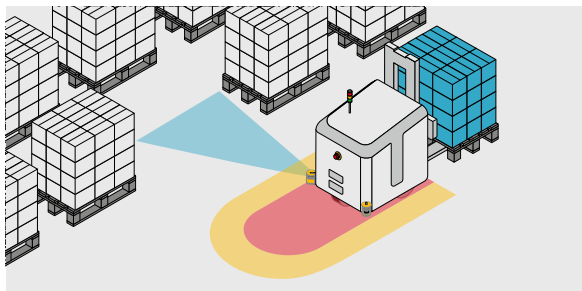
To guarantee safe routes even when negotiating bends, various protected fields and warning fields can be configured. It is possible to switch to the appropriate protected field and warning field to suit the current travel route.



Switching of the protected field and warning field to the current route.

Have the complete picture

Safety laser scanners PSENscan measure the distance of objects in their environment. This information can be used for direct navigation of the automated guided vehicles.



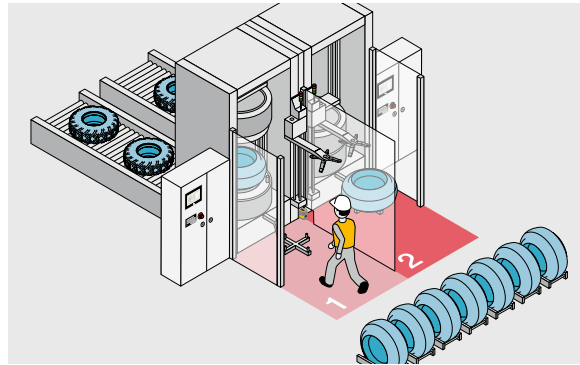
Direct navigation of AGVs by monitoring the surrounding area.

► Flexible solution for your application

Whether used alone, in series or in conjunction with other products, the safety laser scanners PSENscan offer a tailor-made solution for your application.

Simultaneous monitoring of up to three safety zones

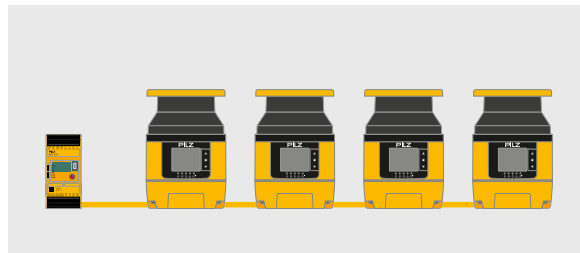
With PSENscan, up to three safety zones can be monitored simultaneously and independently of each other. Only the plant section which a person has entered is stopped. This allows the safety distances of your plant to be optimised. The result is increased plant productivity and improved plant ergonomics while ensuring optimum safety.



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Simple configuration thanks to series connection

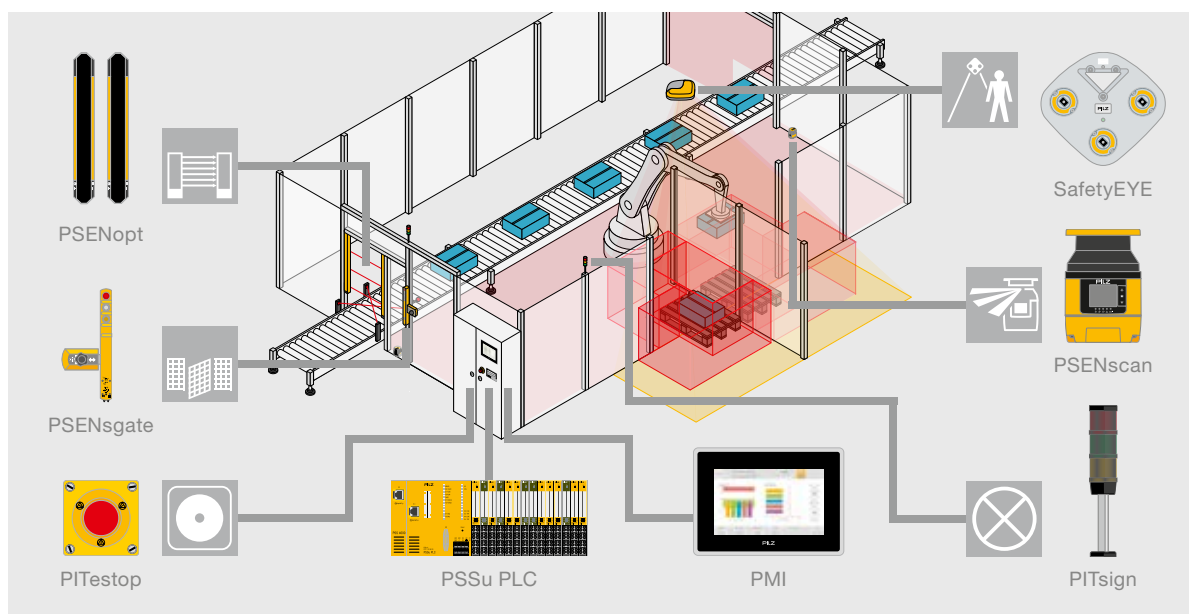
Up to four safety laser scanners PSENscan can be connected in accordance with the master-slave principle. In this case the configuration is made centrally on the master scanner and is then passed to the slaves. The slaves are also supplied with power via the master.



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Safe, complete solution

With many years of experience in the field of optoelectronic sensors, Pilz is your competent partner for safety laser scanners. From sensor technology to control and drive technology plus visualisation – with our full portfolio we offer you a complete one-stop solution.



Safety laser scanner PSENscan



PSENscan

Type	Description/features	Order number
PSEN sc B 5.5	<div>Scanner base version, 5.5 m safety zone, for horizontal area monitoring</div> <div><div>▶ Compliant and approved in accordance with: - EN/IEC 61496-1: Type 3 - EN ISO 13849-1: PL d - IEC 61508: SIL 2</div><div>▶ Opening angle: 275 degrees</div><div>▶ Operating range: 5.5 m safety zone, 40 m warning zone</div><div>▶ Reaction time: 62 ms</div><div>▶ Protection type: IP65</div><div>▶ Dimensions (H x W x D): 152 x 102 x 112.5 mm</div></div>	6D000001

Additional variants of the safety laser scanner PSENscan will be available shortly.

Selection guide – PSENscan accessories



PSEN sc bracket PR



PSEN sc bracket H

Type	Description	Order number
PSEN sc bracket PR	Mounting bracket for tilt angle and roll angle adjustment	6D000002
PSEN sc bracket P	Mounting bracket for tilt angle adjustment	6D000003
PSEN sc bracket H	Accessories for head protection	6D000004
PSEN sc bracket F	Mounting bracket for floor fastening	6D000010
PSEN sc bracket C	Mounting head for corner fastening	6D000011
PSEN sc cleaner	Cleaning agents	6D000008
PSEN sc cloth	Cleaning cloth	6D000009

Selection guide – PSENscan cables



PSEN cable
axial M12 8-pole

Type	Description/features	Order number
PSEN cable axial M12 8-pole	<div>I/Os and voltage supply</div> <div><div>▶ Connection 1: straight, M12, 8-pin, socket</div><div>▶ Connection 2: open cable</div></div>	<div>3 m __ 540319</div> <div>5 m __ 540320</div> <div>10 m __ 540321</div> <div>30 m __ 540326</div>
PSEN op Ethernet cable	<div>Connection cable to PC/network</div> <div><div>▶ Connection 1: RJ45, 4-pin</div><div>▶ Connection 2: M12, 4-pin, connector, D-coded</div></div>	<div>3 m __ 631072</div> <div>10 m __ 631073</div>



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► Support

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*Energy
saving by Pilz*



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PILZ
THE SPIRIT OF SAFETY

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