



▶ The Spirit of Safety



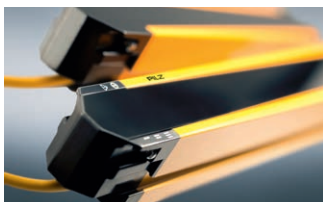
Pilz offers products, services and solutions for safety, security and automation.

With everything we do, we make the world a safer place. This is apparent in every idea, every product and every solution that's developed at Pilz. We always focus on our customers' needs and are passionate about supplying them with cutting-edge technology and the very best quality.

Today, Pilz is a global supplier of automation products, solutions and services with around 2 500 employees. The topics of digitisation and Industrial Security play an increasingly important role. Our digital business models offer our customers maximum benefits. Interlinked production and industrial plants must be protected against errors,

whether caused intentionally or unintentionally. Pilz believes that only a holistic approach to safety and security can guarantee the comprehensive protection of humans and machinery.

For more than 75 years, Pilz has been providing inspiration with its innovative product developments and comprehensive services. Our end-to-end, individual concepts for safety, security and automation support our customers around the world in the implementation of their solutions. This is what we, as a family business steeped in tradition, stand for with our employees – each one an “Ambassador for Safety”.



Sensor technology



Relays



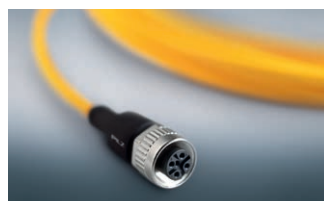
Small controllers



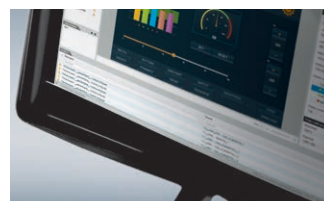
Controllers



Operating and monitoring



Connection technology



Software



Services

▶ Safety sensors PSEN – Safe for the lifetime of the machine



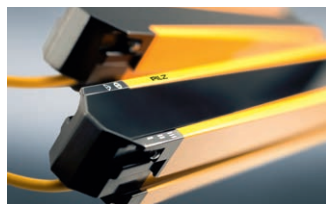
Robust, durable, future-proof: whether position monitoring, safety gate protection or access and area monitoring – our sensor solutions integrate seamlessly into your processes and protect people and machinery. Rely on durable, internationally certified sensors that are easy to use and versatile. For sustainable safety and efficient production.



Optimum position monitoring



Guard protection



Access protection



Area monitoring

► Optimum position monitoring

Whether safety gate, flap or cover – Pilz safety switches precisely monitor the position. They ensure that hazardous machine movements stop immediately when the safeguard is opened. Thanks to their diverse designs and operating principles, they can be used reliably for a wide range of applications – even in rugged conditions.



Benefits to you

- Compact design for easy, space-saving installation
- Can be used in a wide range of applications
- Cost savings thanks to series connection
- Long service life thanks to robust housing and mechanical robustness



» Thanks to Pilz's safety expertise and robust safety switches, we were able to realise reliable and compliant automation systems. The efficient support and holistic solution contributed significantly to the successful completion of the project. «

Suganth, Lead Automation Engineer, HOPE Technik



Mechanical safety switches PSENmech

Ideal for applications without increased manipulation requirements.



www.pilz.com/psenmech



Magnetic safety switches PSENmag

Long service life – as mechanically non-wearing.



www.pilz.com/psenmag



Coded safety switches PSENcode

Highest level of manipulation protection in the smallest space.



www.pilz.com/psencode



Inductive safety switches PSENini

Safe detection of positions within a machine.



www.pilz.com/psenini

► Guard protection

Whether swing or sliding gates, flaps or covers – movable guards are used everywhere. According to EN ISO 14119, guard locking is mandatory for dangerous overrun movements. Pilz safety switches with guard locking safeguard your application – compliant, economical and reliable.



Benefits to you

- Protection against hazardous machine movements
- Manipulation protection prevents unwanted production interruptions
- Designed for all applications up to PL e (EN ISO 13849)/SIL 3 (EN IEC 62061)
- Time and cost savings thanks to simple installation and long service life of the sensors
- Comprehensive diagnostics options
- Individual safety gate solution, tailored to the application



» The holistic solutions and expert advice from Pilz not only make our systems particularly safe, but also easy to operate and convert. And therefore more competitive overall. «

Michael von Zmuda, Head of Engineering,
A+F Automation und Fördertechnik GmbH



Mechanical safety locking device PSENmech

The economical solution for the safe monitoring of guards.



www.pilz.com/psenmech-locking



Safety locking device PSENSlock 2

The electromagnetic safety locking device for process and personnel protection.



www.pilz.com/psenslock2



Safety locking devices PSENmlock and PSENmlock mini

The ideal solution for safety guard locking, even in space-critical applications.



www.pilz.com/psenmlock



www.pilz.com/psenmlock-mini



Safety gate system PSENmgate

Safety guard locking combined with suitable control elements – in just one product.



www.pilz.com/psenmgate

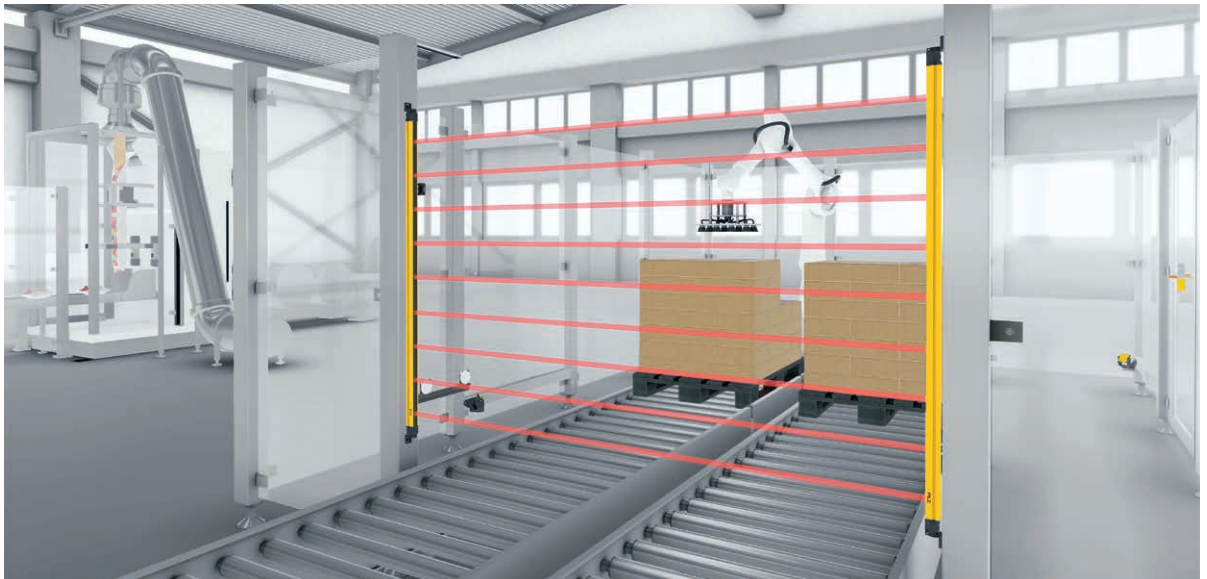
► Access protection

Where material is frequently fed in and out or access is directly at the danger zone, Pilz safety light curtains provide the right protection. They enable flexible intervention in the production process and reliably safeguard body, hand and finger protection applications up to PL e.

Safety Calculator –
Calculate the
correct safety
distance:



[www.pilz.com/
safety-distance-
calculator](http://www.pilz.com/safety-distance-calculator)



Benefits to you

- ▶ Safe, barrier-free access
- ▶ Type 2, type 3 and type 4 light curtains approved in accordance with EN IEC 61496-1/-2
- ▶ Higher productivity due to reduced downtimes
- ▶ Fast, simple installation
- ▶ Individual configuration of protected fields
- ▶ User-friendly diagnostics via LEDs.



» We opted for the new PSENopt II light curtains from Pilz because they are the only light curtains that meet the requirements of category 3, shorten the installation and commissioning phase with quick and easy assembly and are suitable for almost all our tasks. «

Andreas Stummer, Head of Technical Sales and Project Management, SRW Automation & Service GmbH



PSENOpt

PSENOpt – High flexibility for individual requirements – Advanced functionalities such as muting, blanking and cascading.



PSENOpt slim

Ideal for space-critical applications thanks to narrow design and cascading function.



PSENOpt II

The robust safety light curtain – ideal for use in rugged industrial environments.



Shock resistant
up to 50 g



Temperature
range from
-25°C to +60°C



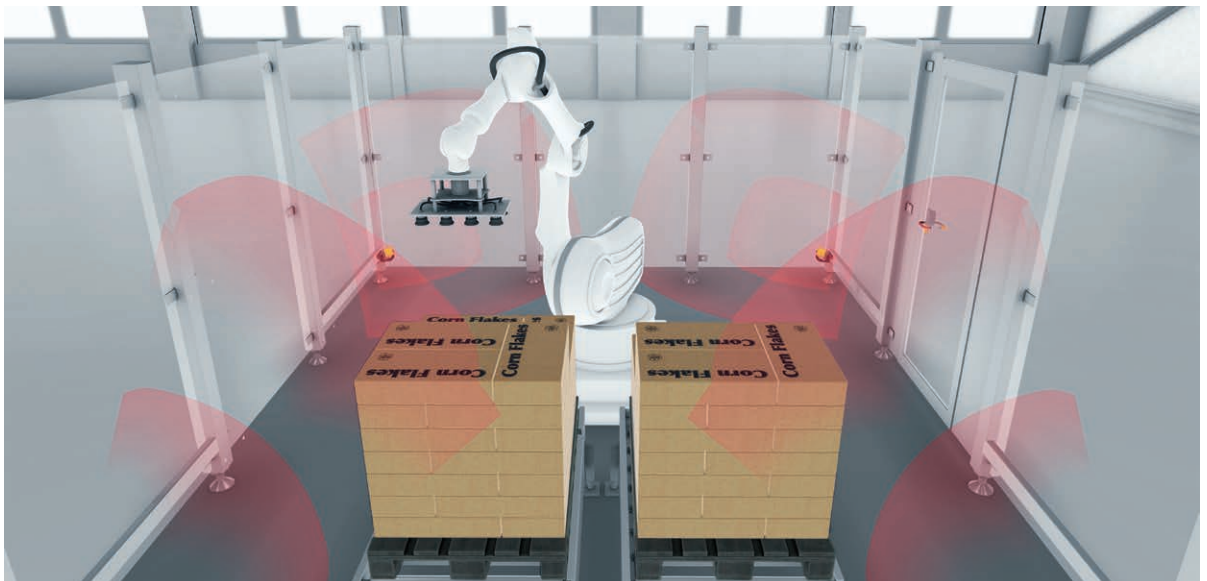
Robust resistance
to dust and dirt



www.pilz.com/PSENOpt

► Area monitoring

The PSENscan safety laser scanners and PSENrada radar sensors offer the perfect solution for stationary and mobile area protection. They detect people in the protected area at an early stage and ensure that dangerous movements are slowed down or stopped. They enable both access monitoring and rear access protection.



Benefits to you

- The highest safety standards ensure reliable protection
- Short reaction times increase productivity
- Fast troubleshooting thanks to integrated diagnostic interfaces
- Simple configuration and operation save time and effort
- Robust in use for higher availability



» Initially we thought about classic zone monitoring. As we have been using Pilz products and solutions for more than ten years and Pilz is a reliable system partner, it made sense to develop a solution together. Pilz has taken us a giant step forwards with this ingeniously simple and totally convincing solution. «

Udo Jebok, Project Manager, Brainware Solutions



Safety laser scanner PSEnscan:
productive area monitoring – Including in series

- ▶ 2D area monitoring with a range of up to 5.5 m and 275° opening angle
- ▶ Compact housing and free configuration options for easy integration
- ▶ Simultaneous monitoring of 3 zones and up to 70 configurations
- ▶ Series connection of up to 4 scanners



www.pilz.com/psenscan

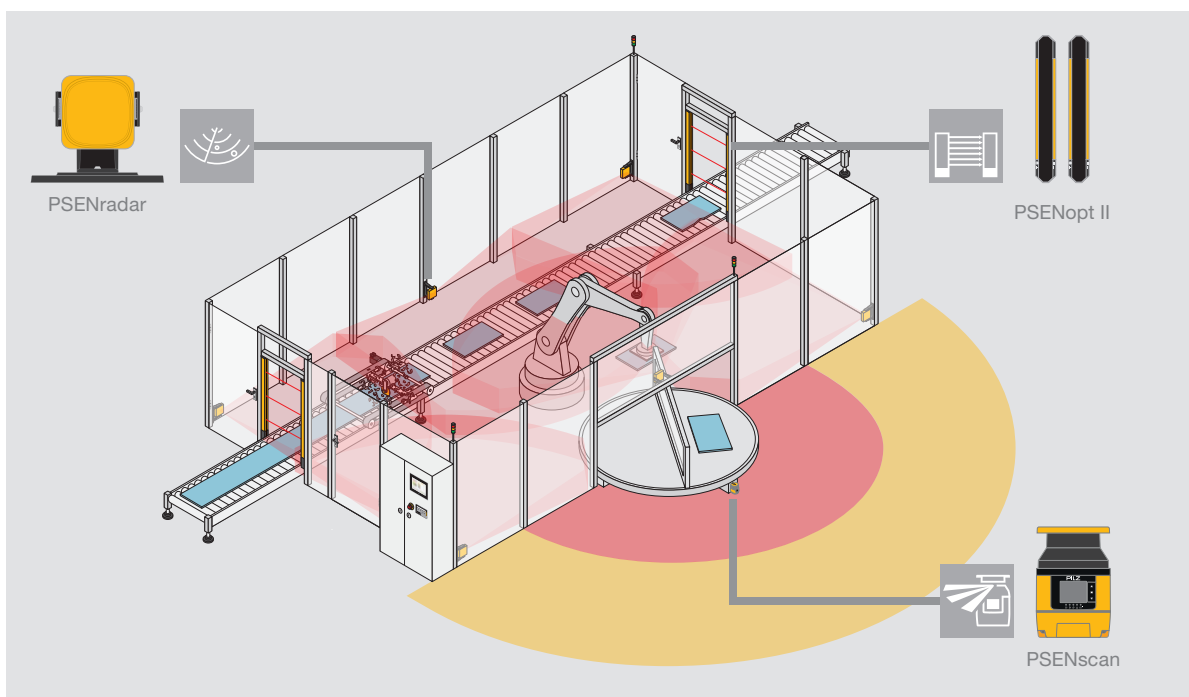


Safe radar sensor PSEnradar:
Protection zone monitoring in rugged environments

- ▶ Volumetric monitoring
- ▶ Insensitive to dust, dirt, rain, light, sparks, steam and vibrations thanks to radar technology!
- ▶ Can be used up to PL d, category 3, also for robotics applications
- ▶ High flexibility thanks to optimised sensor alignment and individual protection zone configuration



www.pilz.com/psenradar



► Pilz Services: Consulting and Engineering

Develop suitable safety strategies for your machines with Pilz



Our Services portfolio:

Existing Machinery

- ▶ Risk Assessment to Safety Validation
- ▶ Machinery Safety Evaluation
- ▶ Safety Upgrade of Machines
- ▶ Inspection of Safeguards

New Machinery

- ▶ Risk Assessment and Safety Design
- ▶ International Compliance (IC-CE, IC-NR12, IC-USA)
- ▶ Machine Acceptance

Specific Technologies

- ▶ Safe Operation of AGVs
- ▶ Robotics Services

Industrial Security

- ▶ Industrial Security Services

Safety for every phase of the machine life cycle

Pilz offers Consulting and Engineering Services for the design, operation and optimisation of safety for machines worldwide. These cover all phases of the machine life cycle and aim to achieve a safe, secure and compliant machine.



Talk to your
Pilz safety expert today!

www.pilz.com/services

► Training: Because knowledge protects

From beginners to experts – make the world a safer place

From an initial overview of normative and legal requirements to in-depth specialist topics and technical expertise, we offer machine operators and machine manufacturers suitable competence modules according to their individual level of knowledge. Thanks to our cooperation with TÜV NORD, participants have the opportunity to obtain a personal and internationally valid qualification to become a recognised expert.

Our Training portfolio:

► Machinery Safety

Expertise in normative and legal requirements relating to Machinery Safety and practice-oriented application, e.g. CE Compliance and Risk Assessment

► Industrial Security

Acquiring knowledge about normative and legal requirements to protect machinery from cyberattacks, manipulation or operating errors and imparting skills to minimise vulnerabilities for safe and secure machinery

► Product Applications

Application of standards-based expertise for commissioning and practical expertise in control technology



In co-operation with:

TÜV NORD

Highly recommended:
CMSE® – Certified Machinery
Safety Expert

Suitable learning formats online or on site – worldwide!



Secure your training
place now and get
started right away!

www.pilz.com/trainings

Support

Technical support is available from Pilz round the clock.

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support@pilz.com

Reporting security vulnerabilities or security incidents

If you would like to report a security vulnerability or a security incident in connection with a Pilz product, please contact our **Pilz Product Security Incident Response Team (PSIRT)**.

You can reach us at: www.pilz.com/psirt

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.



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PILZ
THE SPIRIT OF SAFETY

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