

# All in one - Safety and automation

**PILZ**  
THE SPIRIT OF SAFETY

The whole world of safety and automation from one source ... innovative products and comprehensive services.



## Safe sensor technology

Pilz offers a wide range of safety sensors that conform to international standards and have been tested by certification bodies. Our sensor technology portfolio includes safety switches for monitoring positions, as well as guards. Optical sensors are ideally suited for area and zone monitoring. Choose from our wide range of light curtains, camera systems or tactile sensors, such as pressure-sensitive safety mats.

Use our safe sensors in conjunction with our safe control technology!



## Control devices

A solution for your automation task – cost-effective, reliable, safe and from one source. Pilz controllers allow you to implement safety and automation applications of any size easily and flexibly: machines with an elementary function range, machines with multiple axes, interlinked plant and machinery. Why not use controllers from Pilz! High availability and productivity, as well as maximum safety, are guaranteed for your plant and machinery.



## Drive technology

Servo drive technology from Pilz provides safe and energy-efficient solutions for automating your machine: from controller operation through to the movement of highly dynamic drives. Owing to the open, modular drive concept, individual components or complete systems can be integrated without problem in your existing system environment. Regardless of whether this is for a new installation or for retrofitting your machine.



## Mechatronic systems

Our service robotics modules give you an easy start in robotics. Assemble your individual robot application – exactly according to your requirements: Service robotics modules consists of the manipulator module PRBT, the control module PRCM, the operating module PRTM and ROS modules. Our collision measurement set PROBms for human-robot collaboration (HRC) supports you reliably on your path to a safe application. Application areas of the service robotics modules can be found in service robotics and industrial environments. Benefit from our cost-efficient, flexible solution!



## Operating, monitoring and controlling

Pilz is a solution provider that offers products in the areas of sensor, control and drive technology. We will furthermore reliably support you with operator and visualization systems to ensure completion of your system according to the standards.

Our components, systems and services will support you in the automation of your plants and machinery worldwide. Driven by our vision of "The Spirit of Safety", we will use all our passion and our knowledge to offer you the best possible automation solutions. We are automation specialists committed to safety!

# ► Consulting, engineering and training

As a solution supplier, Pilz can help you to apply optimum safety strategies worldwide. Benefit from practical solutions to the most complex safety issues in all industry sectors. With our international team of committed employees, we're here to advise you. We can provide support during technical implementation with our services across the machine lifecycle – from risk assessment through to the declaration of conformity.



## Training

Pilz supports you with a comprehensive range of training courses: Product-neutral seminars on machine safety and automation, as well as product-specific courses. Pilz can also design training specific to your company's need.



## Machinery safety

### Risk assessment

A systematic, structured method to provide an in-depth review of all hazards associated with the operation and maintenance of a single machine with the purpose of defining protective measures to reduce the degree of possible harm.

### Safety concept

We develop detailed, technical solutions for the safety of your plant and machinery through mechanical, electronic and organizational measures.

### Safety design

The aim of the safety design is to reduce or eliminate danger points through detailed planning of the necessary protective measures.

### System implementation

The results of the risk analysis and safety design are implemented to suit the particular requirements through selected safety measures.

### Validation

In the validation stage, the risk assessment and safety concept are mirrored and inspected by competent, specialist staff. We also perform collision measurement for human-robot applications in accordance with the limit values from ISO/TS 15066.



## International compliance

### CE marking

Pilz manages the documentation and certification for machine safety compliance required for import into the European Union.

### NR-12

As a complete supplier, we can provide support from risk assessment to validation, technical documentation at the manufacturer's and final acceptance at the operator's in Brazil.



## Workplace safety

### Machinery safety audit

An on-site evaluation of the most severe risks associated with multiple machines. The deliverable is a safety status report which will help prioritize remediation schedules and investments, thereby optimizing your profitability.

### Lockout tagout system

Our customized Lock Out/Tag Out (LOTO) measures guarantee that staff can safely control potentially hazardous energies during maintenance and repair.

### Inspection of safeguards

Pilz can inspect Electro Sensitive Protection Equipment (ESPE), such as light curtains, to ensure proper installation and functionality.