Automation technology
Components – Systems – Services

PILZ

THE SPIRIT OF SAFETY

Product overview

▶ Sensor technology ▶ Relays ▶ Small controllers

▶ Controllers ▶ Drive technology

▶ Operating and monitoring ▶ Software ▶ Services

We automate. Safely.

Pilz is a leading, innovative automation technology company.
As experts in the safety of human, machine and the environment,
Pilz provides worldwide, customer-oriented solutions for all industries.

These include innovative products and comprehensive services from
the areas of sensor, control and drive technology.

We pursue clearly defined goals. Our focus is to complete our safe
automation range with safe sensor and actuator technology and dovetail this
core competency with the expansion of solutions for standard automation.
This way we can transfer our experience and knowledge from safety
technology to the requirements of general control technology.
The benefits for you: Tailored, one-stop automation solutions.

Pilz USA provides solutions for your automation functions that are safe,
economical and reliable. We offer first-class components, which you
can use individually or combine to form a system. Pilz develops
environmentally-friendly products using ecological materials and
energy-saving technologies. Our offices and production facilities are
ecologically designed, environmentally-aware and energy-saving.

Based on our 30 years of industry experience, we are a trusted provider
of safety services to leading national and international industrial companies.
By providing viable solutions to the most complex safety issues, we help
companies apply best manufacturing practices to optimize the availability
and productivity of their plants worldwide.

COMPONENTS

Sensor
Control technology
Drive technology

SYSTEMS

Automation
systems

Automation
technology

Innovative

Safe

Ecologi

ALL IN ONE
1
SAFETY & AUTOMATION

Pilz is your solution supplier for all automation tasks. Including standard control functions. Pilz developments protect man, machine and the environment.

Pilz has a tradition as a family-run company stretching back over 60 years. Real proximity to customers is visible in all areas, instilling confidence through individual consultation, total flexibility and reliable service. Worldwide, round the clock, in 42 subsidiaries and branches, as well as 27 sales partners on every continent.

More than 2 200 staff, each one of them an ambassador for safety, make sure that your staff – your company's most valuable asset – can work safely and free from injury.

SERVICES

Consulting
Engineering
Training

Economical

cal

cal

PILZ

THE SPIRIT OF SAFETY

Automation
solutions from Pilz –
at home in every
industry.

▶ Services:
Consulting, engineering and training

As a solution supplier, Pilz can help you in the global application of optimum safety strategies that comply with specifications. Our services ensure the highest safety for man and machine worldwide.

Pilz Services
for Safety and Automation

Machinery safety

Machinery safety throughout the lifecycle

- ▶ Risk Assessment
- ▶ Safety Concept
- ▶ Safety Design
- ▶ System Implementation
- ▶ Validation

Safe machinery at each stage

International compliance

Compliance with international standards and directives

- ▶ CE Marking
- ▶ NR-12

Compliant machines worldwide

Workplace safety

Absolute safety when operating machines

- ▶ Plant Assessment
- ▶ Lockout Tagout System
- ▶ Inspection of Safeguarding Devices

The maximum possible safety for man and machine

Training

International qualification program and certified courses

Enhancement of professional development

Training

Pilz supports you with a comprehensive range of training courses on all topics of machinery safety and automation.

And to progress to the expert level in machinery safety we offer the qualification of CMSE® – Certified Machinery Safety Expert.

Machinery safety

Risk Assessment
We review your machinery in accordance with the applicable standards and directives and assess the existing hazards.

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

International compliance

CE Marking
We control all activities and processes for the necessary conformity assessment procedure, including the technical documentation that is required.

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

Plant Assessment
We will prepare an overview of your entire plant in the shortest possible time. With an on-site inspection we will expose risks and calculate the cost of optimizing your safeguards.

Lockout Tagout System
Our customized lockout tagout (LoTo) measures guarantee that staff can safely control potentially hazardous energies during maintenance and repair.

Inspection of Safeguarding Devices
With our independent, ISO 17020-compliant inspection body, which is accredited by the German Accreditation Body (DAkkS), we can guarantee objectivity and high availability of your machines.

DAkkS
Deutsche
Akkreditierungsstelle
D-IS-12033-01-00

Pilz GmbH & Co. KG, Ostfildern, operates an inspection body for plant and machinery, accredited by DAkkS.

Services for Safety and Automation:
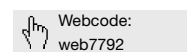
Webcode:
web7792

Online information at www.pilz.us

▶ Safe sensor technology

Pilz sensors, PSEN, guarantee that complex plants and machinery can be used efficiently while still complying with standards intended to protect man and machine. The versatile portfolio provides individual solutions for every requirement: from position monitoring to three-dimensional zone monitoring.

PSENslock

SafetyEYE

PSENmlock

PSENscan

PSENrope

PSENcode

PSENopt

PSENsgate
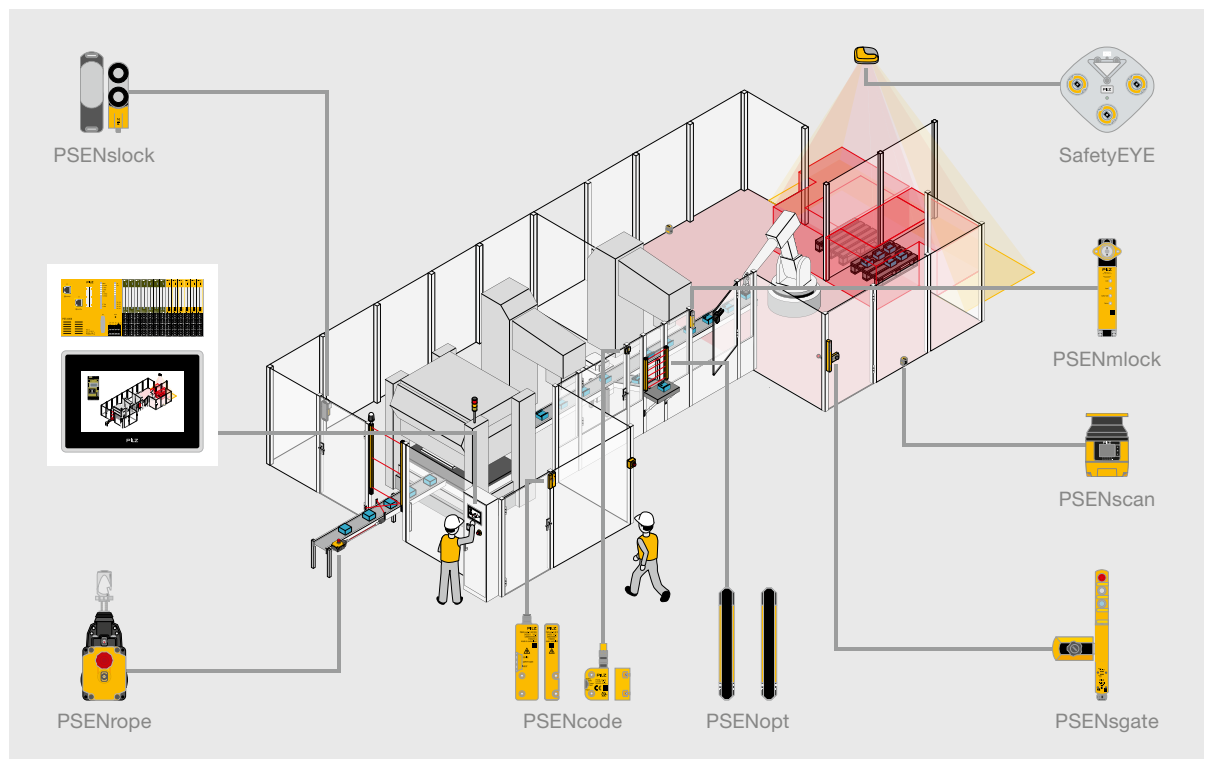
Numerous options for your application

Overall solutions and complete systems, in conjunction with safe control technology, offer ample potential for savings with your automation solution. And there are no limits. Whether it's a small machine or a complex system or a complex system, Pilz sensor technology will slot perfectly into your system environment. Thanks to its compatibility and suitability for connection in series with other sensors, you always obtain an economical solution.

While high plant efficiency is a requirement in an industrial environment, it's important not to neglect the protection of man, machine and the environment: from commissioning to high availability during operation. Pilz sensors, PSEN, provide a safe, flexible solution.
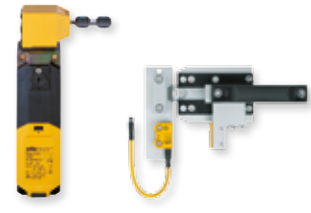
Your benefits at a glance
▶ **Economical solutions:** Sensors from the various product ranges are compatible and can be connected in series
▶ **Investment protection:** Incorporated optimally into the system environment, easy to retrofit
▶ **Potential saving:** In the project planning, design, documentation, procurement and assembly stages thanks to ready-to-install systems and comprehensive solutions

PSENmag   PSENcode

**Safety switches, PSENmag
and PSENcode**
– different designs and operating
principles: magnetic and coded
safety switches offer economical
series connection and a very
high standard of manipulation
protection (PSENcode).

Webcode web150413, web150412

PSENmech   PSENbolt

**Safety switches, PSENmech
and safety bolt PSENbolt**
– the mechanical alternative
for safety gate monitoring
for personnel and processes.
The safety bolt represents
a complete solution of a
safety switch, handle and bolt.

Webcode web150414, web150411

PSENslock PSENmlock PSENsgate

**Safety gate systems,
PSENslock, PSENmlock
and PSENsgate**
– all the safety functions for
monitoring safety gates in
the smallest possible space:
safe position monitoring and safe
guard locking in a single system –
mechanical or magnetic.

Webcode web150524

**The safe
complete
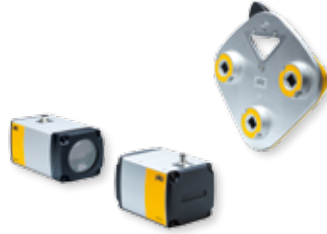solution:
sensor
technology
plus controller**

Comprehensive
range of
accessories
available in
our E-Shop.

PSENopt   PSENscan

**Optoelectronic sensors,
PSENopt and PSENscan**
– the light curtains, PSENopt, offer
finger, hand and body protection,
along with extended functionalities
such as muting, blanking and
cascading. The safety laser
scanners PSENscan are suitable
for 2D area monitoring.

Webcode web150525

SafetyEYE and PSENvip

**Safe camera systems,
SafetyEYE and PSENvip**
– use SafetyEYE for 3D zone
monitoring and the camera-based
protection system PSENvip
for monitoring and controlling
press brakes.

Webcode web150526

Safety Device Diagnostics

Safety Device Diagnostics
– use Safety Device Diagnostics
to access advanced diagnostic
data from Pilz safety devices.
Thanks to the use of SDD,
service deployments are avoided
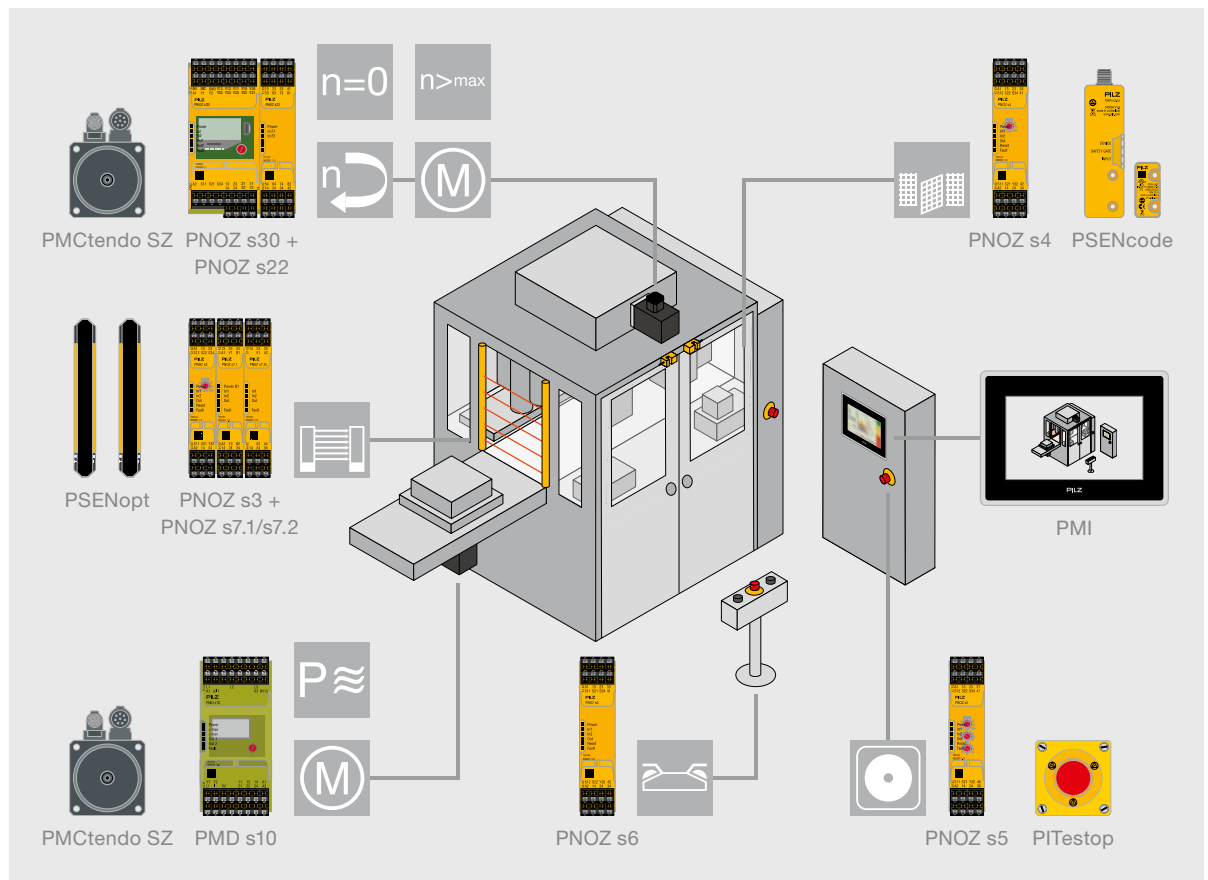and downtimes reduced.

Webcode web150456

▶ Relays

The aim of Pilz relays is to keep the risk to man and machine as low as possible. Pilz relays provide the right solution for every application, with an ideal cost/performance ratio that has been proven in the market millions of times over. Choose one of the leading brands in automation technology – a brand with many years of experience and outstanding service.

PMCtendo SZ PNOZ s30 +
PNOZ s22

PNOZ s4 PSENcode

PSENopt PNOZ s3 +
PNOZ s7.1/s7.2

PMI

PMCtendo SZ PMD s10

PNOZ s6

PNOZ s5 PITestop

For reliable monitoring of functional safety, we offer you the safety relays, PNOZ. Monitor electrical safety with the electronic monitoring relays, PMD. For safe line inspection we offer you PLIDdys. Brake control devices are used to monitor safety brakes or holding brakes. Devices for safe speed monitoring complete the range of innovative relays. Our products comply with international standards and regulations. Reliable devices guarantee you highly economical operation as well as a long service life for machinery and plant – see for yourself!

Your benefits at a glance
- ▶ The reassurance
  of a leading brand
- ▶ Optimum cost/
  performance ratio
- ▶ Rapid instrument-based
  commissioning
- ▶ High availability of products
- ▶ Certified safe, because
  international standards and
  regulations are met

PNOZelog   PNOZsigma   PNOZ X

Safety relay, PNOZ

– for monitoring machinery
with up to three safety functions
(e.g. E-STOP, safety gates etc.).
There are different product ranges
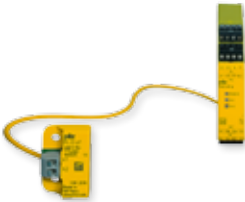depending on the requirement.

Webcode web150093

PMDsigma

**Electronic monitoring
relays, PMD**

– for monitoring electrical
variables such as voltage or
true power.

Webcode web150105

PLIDdys in conjunction
with PNOZelog

**Line inspection devices,
PLIDdys**

– provide safe power-up
on two-wire connections,
for maximum safety on
long cable routes.

Webcode web150902

**Relays from Pilz –
the optimum
safety solution**

Comprehensive
range of
accessories
available in
our E-Shop.

PNOZ s50

**Brake control devices,
PNOZ s50**

– suitable for safe brake control
and monitoring of holding brakes
or safety brakes.

Webcode web150117

PNOZ s30

**Speed monitoring devices,
PNOZ s30**

– suitable for safe monitoring of
standstill, position and direction
as well as monitoring of speed
range and shear pin breakage.

Webcode web150619

▶ Configurable, safe small controllers

Safe small controllers bridge the gap between classic safety relays and large programmable control systems. Use the configurable small controllers PNOZmulti to implement multiple safety functions. Functional safety to protect man and machine is, thus, achievable both simply and flexibly, with just a few clicks in the software tool, PNOZmulti Configurator. On small machines, the small controllers PNOZmulti also perform automation tasks. Easy diagnostics and visualization are possible with the web-based visualization software PASvisu – for high plant availability and low downtimes.
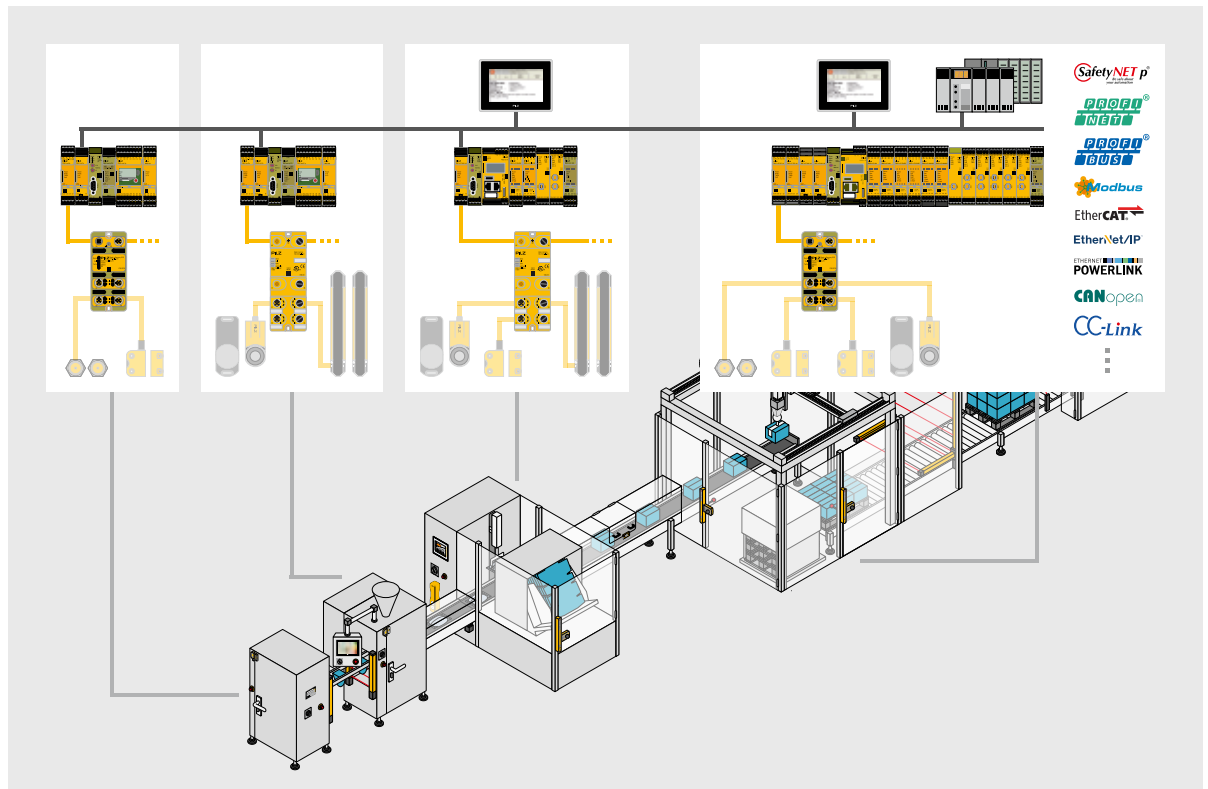
Many functions – one solution

The software tool, PNOZmulti Configurator, will impress you with its simple operation: install, open, work intuitively. The wide range of fieldbus and communications options is a big plus with PNOZmulti, because the safety system can be used independently of the higher-level operational control. PNOZmulti is the worldwide standard for many automation environments and communication systems. A wide selection of expansion modules ensures maximum flexibility and safety for your application. Input and output modules, motion monitoring modules and link modules are available.

Your benefits at a glance
▶ **Cost-effective and long-lasting**:
  worldwide safety standard for many automation environments and communication systems
▶ **Flexible**: configuration using certified software blocks, simple adjustment and adaptation

PNOZ m B0   **PNOZ m B1**

PNOZ m1p ETH

PNOZ mm0.1p

**Configurable, safe small
controllers, PNOZmulti 2**
– PNOZmulti 2 gives you all
the advantages of the latest
generation. The full function range
of the "classic" PNOZmulti base
units has been made available
in an overall width of 45 mm,
complete with an illuminated
display and modular expansion.

Webcode web150500

**Configurable, safe small
controllers, PNOZmulti**
– PNOZmulti is the classic
safety system. The system is
characterized by a diverse range
of base units, expansion modules
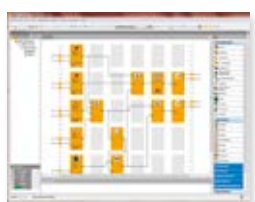and communication options.

Webcode web150497

**Configurable, safe compact
controllers, PNOZmulti Mini**
– PNOZmulti Mini gives you
four base units to choose from,
plus a small number of expansion
modules. Additional output
contacts are possible using the
contact expansion modules from
the product group PNOZsigma.

Webcode web150501

Comprehensive
range of
accessories
available in
our E-Shop.

PNOZmulti Configurator

PNOZ

PASvisu

PAS

PDP67 F 8DI ION PT   **PDP20 F 4 mag**

**Software tool,
PNOZmulti Configurator**
– the graphic tool helps with
configuring and parameter
setting for the safe small
controllers, PNOZmulti, including
documentation and
commissioning.

Webcode web150399

Visualization software, PASvisu
– optimally linked: Control project
and visualization. The web-based
visualization software PASvisu
enables simple configuration
and visualization.

Webcode web150430

Decentralised modules, PDP
– to assist you with economically
decentralizing your application.
Integrated in dirt and
water-repellent housings.

Webcode web150510

▶ Controllers

You can use controllers and decentralized I/O systems from Pilz to easily and flexibly implement safety and automation applications of any size: machines with an elementary function range, machines with multiple axes, interlinked plant and machinery. High availability and productivity, as well as maximum safety, are thus guaranteed for your plant and machinery.

PSS u2

PAS

Consistently distributed
control functions

PSSu PLC

PAS

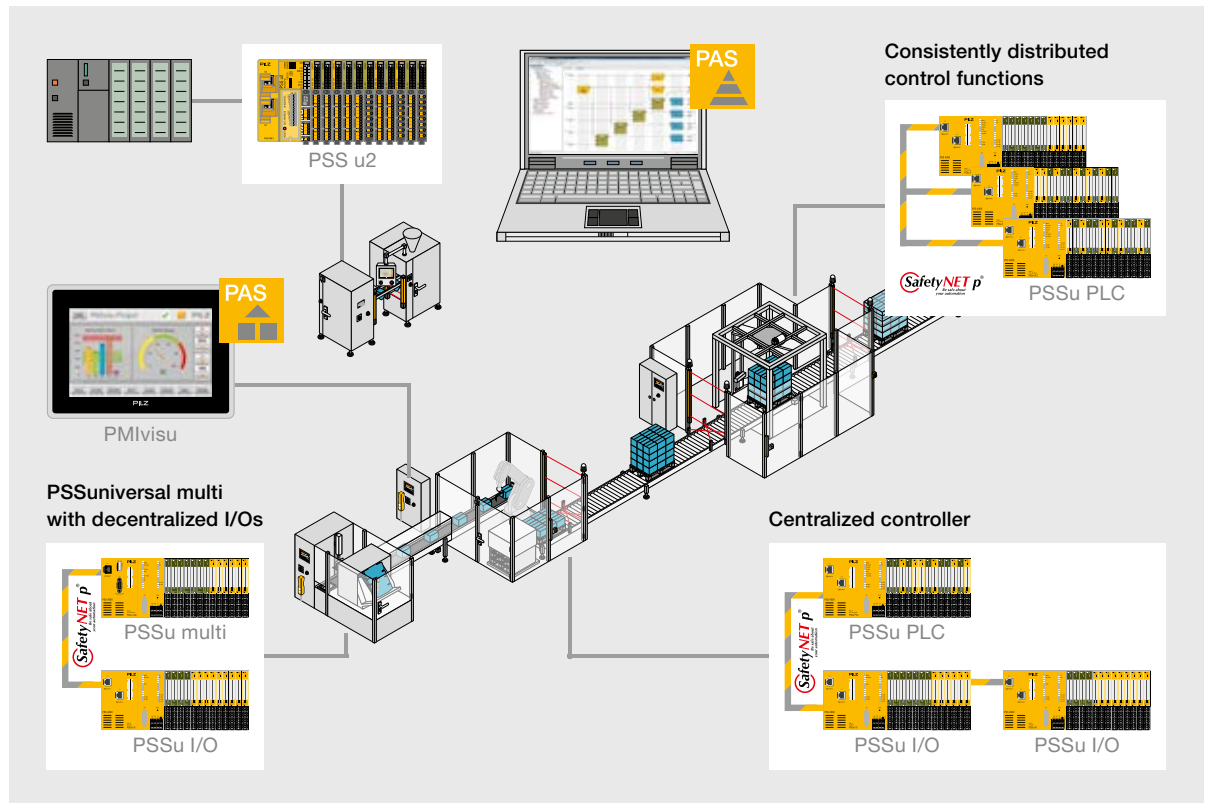PMIvisu

**PSSuniversal multi
with decentralized I/Os**

PSSu multi

PSSu I/O

Centralized controller

PSSu PLC

PSSu I/O   PSSu I/O

Simple programming of large plants!
▶ Processing of safety and automation functions
▶ Can be used as a stand-alone controller or as part of a network
▶ Intuitive programming of complex functions
▶ High level of flexibility thanks to modular system structure
▶ Extensive selection of modules to meet your specific requirements

System for third-party controllers
▶ Communication with the controller takes place via common fieldbus protocols
▶ Functions for safety and automation are processed decentrally at field level
▶ Quick commissioning and easy configuration thanks to
  the independent periphery test
▶ High level of flexibility thanks to modular system structure

Your benefits at a glance
▶ **High flexibility:**
  The appropriate solution
  for each application
▶ **High plant availability:**
  low downtimes for your plant or
  machinery thanks to convenient
  diagnostics
▶ **Faster commissioning:**
  e.g. thanks to units with
  plug-in terminals or simple
  software solutions

PSSuniversal PLC

Control and I/O systems of the automation system, PSS 4000

– the automation system
PSS 4000 is scalable and can
be used industry-wide thanks
to the various controllers and
I/O systems, coupled with the
configuration and programming
software.

Webcode web151340

PSSuniversal

PSSuniversal decentralized I/O systems

– the decentralized I/O systems
PSSuniversal can be tailored for
use as remote I/Os at field level.
Connection to a higher-level third-
party controller is via common
industrial communication
protocols.

Webcode web150509
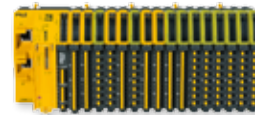
PSSuniversal 2

PSSuniversal 2 remote I/O system

– the remote I/O system permits
customized, granular solutions.
It consists of communication
modules with PROFINET and
EtherNet/IP interfaces and a
selection of I/O modules.

Webcode web150509

Comprehensive
range of
accessories
available in
our E-Shop.
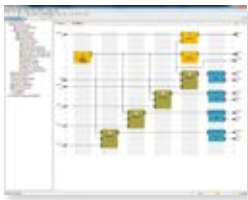
PASmulti

Software platform, PAS4000

– contains several editors
and blocks. The tools for
configuration, programming,
commissioning and operation
are closely compatible.

Webcode web150424

PASvisu

Visualization software, PASvisu

– for control projects and
visualization. The web-based
visualization software PASvisu
enables simple configuration and
visualization. You can link your
PAS4000 control project directly
to the PASvisu Builder project.

Webcode web150503

PSS67

PSS67 modules

– the modules with protection
type IP67 (water and dust
resistant) can be used decentrally
in the field. With a connection
to SafetyNET p, they can be
integrated into the automation
system, PSS 4000.

Webcode web181447

▶ Drive technology

Pilz Motion Control provides overall and energy-efficient solutions for your machine automation. The portfolio spans complete solutions from motion control systems and servo amplifiers to servo motors, including all safety aspects. Individual components are also available to you. Pilz drive technology is embedded into the relevant system environment – whether a new structure or a retrofit – and is open for a variety of interfaces and functionalities.
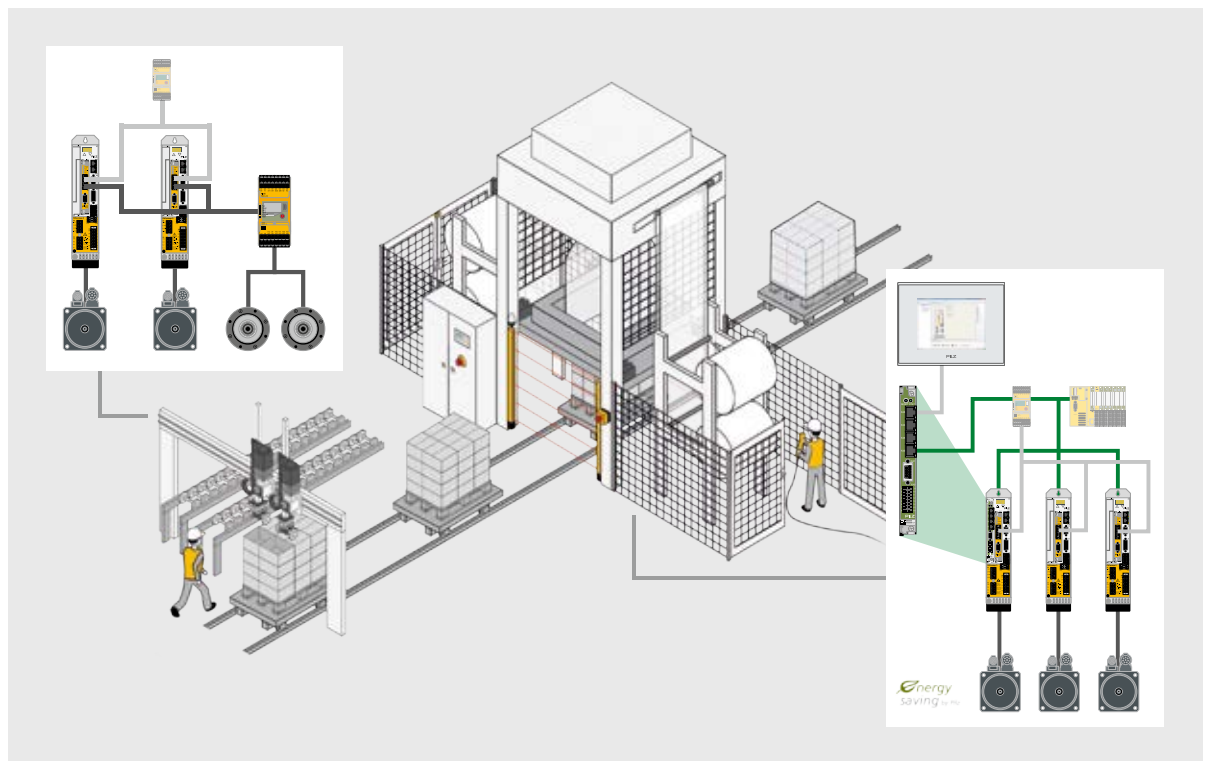
Capable all-rounder

Drive technology, PMC, is available to you for a wide range of applications: The safe motion solution is suitable for servo presses, for example. Functions such as "Safely Limited Speed" in set-up mode, "Safe Direction" during the light curtain's muting phase and "Safe Brake Control" on vertical axes enable operators to work safely within the danger zone.

Intelligent motion control enables you to reap the rewards of short cycle times and optimally synchronized motion sequences. The intuitively operated software, PMCtools, supports you with simple parameter setting and diagnostics.

Your benefits at a glance

▶ **Safe:** up to PL e for each piece of feedback
▶ **Energy efficient:** high energy savings thanks to efficient servo technology
▶ **Open:** highly flexible because various fieldbus and feedback systems and functionalities can be used
▶ **Productive:** short cycle times pave the way for high performance, e.g. by drive bus EtherCAT

PMCprimo DriveP

PMCtendo DD5   PMCprotego D

PMCtendo SZ

Pilz drive technology – safe, energy efficient, open, productive

Control systems, PMCprimo
– they are based on PLC and motion technology and are suitable for use in control and motion tasks.

Servo amplifiers, PMCtendo DD5 and PMCprotego D
– these are used as drive controllers for a very wide range of motor technologies: from the servomotor to the asynchronous and linear motor.

Servomotors, PMCtendo SZ
– you will find the most suitable motor for your requirements here, depending on the priorities: dimensions, dynamics, controllability, connection variants or feedback systems.

Comprehensive range of accessories available in our E-Shop.

Webcode web150507

Webcode web150508

Webcode web150528

PMCprotego DS

Safe motion
– this consists of a combination of safety card, PMCprotego S and servo amplifier PMCprotego D. Safe functions keep setup times down, minimize maintenance costs and increase productivity.

Safe Torque Off (STO)

Safe Stop 1 (SS1)

Safe Stop 2 (SS2)

Safe Operating Stop (SOS)

Safely Limited Speed (SLS)

Safe Speed Range (SSR)

Safe Direction (SDI)

Safely Limited Position (SLP)

Safely Limited Increment (SLI)

Safe Brake Control (SBC)

Safe Brake Test (SBT)

Webcode web150389

▶ Operating and monitoring

Operating and monitoring enable short reaction times through control and signal devices, as well as rapid diagnostics via visualization systems. As the ideal supplement for other Pilz products, your plant is completed reliably and in compliance with the standards.

PITsign

PSENopt

PITestop active –
Surface mount version

PITenable PITjog

PITestop active –
Panel mount version

PMI

PITmode
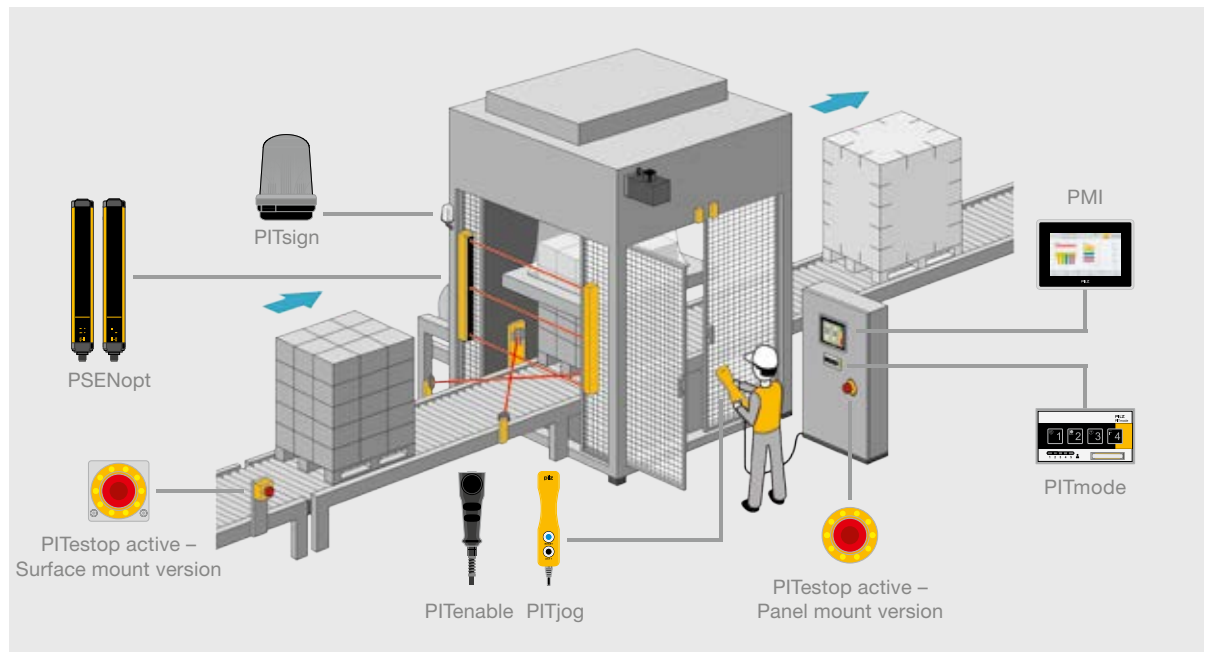
Control and signal devices PIT – safe all round

Selection of the correct control and signal devices is a key factor for the safety of man and machine. Rely on a safe solution with Pilz compliant emergency stop pushbuttons, muting lamps, and manually operated control devices and operating mode selector switches.

Operator terminals, PMI – professional and simple

Systems for process visualization and interaction between man and machine form the link between operator and machine. When an error occurs, diagnostics on the plant and machinery have a special role to play. Good visualization and diagnostics also mean shorter downtimes and therefore increased cost effectiveness.

Your benefits at a glance
▶ **Control and signal devices**
  - **Simple and quick mounting:**
    with push-in technology
  - **Increased operational
    safety:** thanks to contact
    block with monitoring
▶ **Operator terminals**
  - **Flexible to use:**
    variety of hardware
    and software, numerous
    display sizes
  - **Complete tools:**
    for diagnostics, visualization
    and control

Professional operating and monitoring with Pilz

Comprehensive range of accessories available in our E-Shop.

PITestop active

E-STOP pushbutton, PITestop
– different versions,
e.g. illuminated or with key,
ensure the safety of man and
machine in emergency stop
equipment.

Webcode web150436

PITsign

Muting lamps, PITsign
– indicate that electrosensitive
protective equipment is also
suspended in accordance with
IEC 61496-1, even during muting.

Webcode web150441

PITjog

**Manually operated
control devices, PITjog**
– are used if the effect of safety
equipment has to be completely
or partially suspended (two-hand
operation).

Webcode web150437

PITenable

Enabling switches, PITenable
– are used as manually operated
control devices for working with
an open safety gate (one-handed
operation).

Webcode web150440

PITmode

**Operating mode selector
switches, PITmode**
– offer two functions: selection of
operating mode and authorisation
control for machine access.

Webcode web150439

PMI

Operator terminals, PMI
– are equipped with a resistive
touch display from 3.5" to 15" for
operation and monitoring of
technical processes.

Webcode web150778

▶ Software

Design, programming, configuration and commissioning can be achieved quickly and simply using Pilz automation software. The easy, user-friendly diagnostics of our automation software guarantee a high level of plant availability. Product-independent tools for use in interactive products are also available to you.

Calculation software for verifying functional safety

The PAScal Safety Calculator calculates the PL (Performance Level) and SIL (Safety Integrity Level) achievable for safety functions on plant and machinery depending on the components used. The result is verified with the required PL in accordance with EN ISO 13849-1 or SIL in accordance with EN/IEC 62061 and any actions that are required are listed. PAScal supports the VDMA-66413 and Sistema library format. This guarantees that data is displayed in a standardized format across a range of manufacturers. PAScal® has been certified by TÜV SÜD.
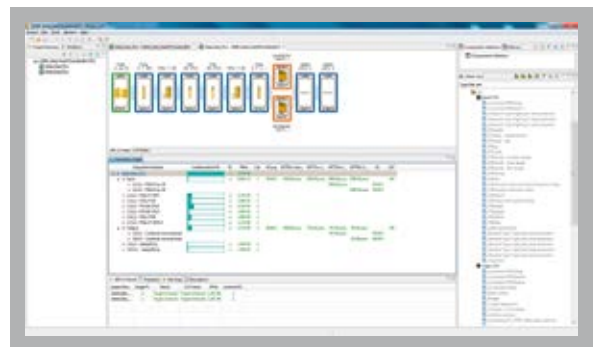
Lockout/tagout documentation software, PASloto

Lockout tagout (LoTo) is concerned with enabling energy and safety-relevant interlocks on the various energy supplies on machines. The software, PASloto, provides support as you document your lockout tagout procedures. PASloto helps you to draw up job descriptions for powering down in the LoTo procedure. You can also document your whole plant simply and quickly with regard to LoTo. With this regulated procedure in the lockout tagout process you save time, money and, last but not least, guarantee higher occupational safety.

Webcode:
web161898

Online information
at www.pilz.us

Webcode:
web150503

Online information
at www.pilz.us

HMI software, PASvisu, for web-based visualization – an overview of all your automation!

PASvisu enables you to perform easy configuration and optimum visualization of your automation projects.
So you can achieve a convenient, comprehensive overview of your plant locally and via remote access! PASvisu displays your automation projects in a way that's visually attractive thanks to the most diverse range of style sheets.

▶ As unique as your requirements: Pilz industry expe

Pilz offers unique industry know-how, built up over decades and still continuously expanded today, that virtually no other company in the world is able to match. Whatever industry you are in, we support you with our structured project management, safety expertise and know-how.

Robotics – human-robot collaboration.
Safety guaranteed!
Pilz helps you to implement safe human-robot applications, using solutions that are tailored to the individual life phases of a robot system.

Packaging technology –
economical and flexible solutions
In practice it comes down to the harmonization of safety and automation, particularly when the machine needs to be fitted or maintained. It's essential to have a safety concept for your packaging machines and to select the right safe sensors, controllers and drives, including the appropriate software for machine diagnostics and maintenance.

Metalworking/presses – safety-related
equipment, upgrade and operation of presses
Reliable safety technology for presses should not only be flexible and powerful, but economical too. We can help you to equip and retrofit your presses safely and guarantee safe operation. As an experienced partner we are there to support you throughout the redesign and retrofit, for the entire life cycle of the machine.

rtise

**Automobile – safe solutions
for the automotive industry**
We guarantee the high availability and efficiency of your
plants through integrated machinery safety. Our experts
will advise you on each individual step of the production
process. Whether pressing, body shell manufacturing,
paint system or the assembly line.

Pilz has extensive
expertise in
a wide range
of applications.
Talk to us about
your individual
situation.

**Rail and transport technology –
industrial safety technology to rail standards**
As a company that operates internationally as
a technology leader, Pilz has many decades of
experience in the field of safe automation. The highly
sensitive and heavily safety-relevant railway sector
benefits from precisely this experience thanks to
the use of proven industrial automation products.

**Wind power –
safe, efficient automation of wind turbines**
Pilz offers solutions for monitoring all the relevant
safety functions on wind turbines. Even on a wind
turbine, the protection of man and machine is
absolutely indispensable. We provide solutions
for safe speed monitoring on the rotor and generator
shaft, for example.

**Food & Beverage – machinery safety
in the food & beverage industry**
You need flexible systems in order to produce
a wide range of products. That means you need
a strong safety partner by your side. We support you
in the integration of additional equipment or the
upgrading of an existing machine taking all aspects
of safety into account.

Visualisation; Diagnostics

Easy to Configure

Pilz automation solutions

Pilz offers everything that you need for the automation of your plant and machinery: Innovative components and systems in which safety and automation are merged within hardware and software.

From sensor and control technology to drive technology, the ease of commissioning, operation and diagnostics plays an important role for all components and systems from Pilz.

You benefit from flexible solutions for machines with an elementary function range through to large interlinked plants. With us you can standardize your safety, implement safety and automation in one periphery or find solutions for complete automation.

Pilz solutions are embedded into the relevant system environment – whether a new structure or a retrofit – and are open for a variety of interfaces and functionalities.

The perfect combination:

Control technology from Pilz offers numerous application options, including monitoring of electrical

Programming IEC 61131-3

Rapid Installation

Pilz automation solutions

▸ Simple configuration, programming and visualization
through innovative software solutions
▸ High flexibility due to individually expandable solutions
▸ Openness of communication
▸ High availability thanks to extensive diagnostic options
▸ One system for safety and automation

and functional safety, through
to complete machine control.

**Safe sensors and decentralized
modules from Pilz** guarantee
the efficient, compliant use of plant
and machinery in combination with
various control systems. Our turnkey
systems and universally compatible
solutions offer a high savings
potential.

Drive technology from Pilz
is characterized by drive-integrated
safety functions, safe logic
functions and the connection
of visualization, sensor and
actuator technology.

**Operator and visualization
systems from Pilz** complete your
plant and machinery.

Automation software from Pilz
allows you to quickly and easily
implement your planning,
programming, configuration,
commissioning, diagnostics
and visualization.

Pilz offers you automation
solutions for the safety of man,
machine and the environment.

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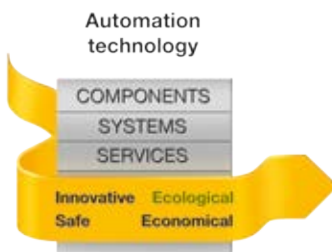
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Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the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

energy saving by Pilz

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Alliance Member
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Sustainability Initiative

Automation technology

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PILZ

THE SPIRIT OF SAFETY