



► New in 2025/2026

For your automation solutions

PILZ
THE SPIRIT OF SAFETY



► What's new in 2025/2026 for your automation solutions

Pilz supplies automation solutions for plant and machinery: complete and simple. From sensor technology to control and drive technology – safety and automation included. Various software tools enable simple operation and make commissioning easier. Benefit from short downtimes and high plant availability due to extensive diagnostic options. Here we present our product innovations for 2025/2026 for your safe automation. Further information is available on our homepage at www.pilz.com.

Contents

Safety laser scanner PSEnscan – now with PROFINET interface	4	IndustrialPI® – the industrial PC that adapts to all your needs	16
Safety gate system PSEnmgate – now even more versatile	6	Servo amplifiers PMC SC6 and SI6 – safe control right up to the drives	18
Modular safety relay myPNOZ	8	Pushbutton unit PITgatebox with IO-Link Safety	20
Safe small controllers PNOZmulti Configurator – what's new in Version 11.5/11.6	10	Pushbutton unit PITgatebox with PITreader card unit	22
IO-Link Safety Master PDP67	12	Fundamentals of Industrial Security	24
MYZEL® – Manage your machine lifecycle! Digital. Safe. Secure.	14	Service machine acceptance	26



www.pilz.com/facebook



www.pilz.com/xing



www.pilz.com/linkedin



www.pilz.com/youtube

► Safety laser scanner PSENscan – now with Profinet interface

NEW

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. It is especially suitable for stationary and mobile area guarding as well as access monitoring. The new PSENscan PN expands the existing portfolio in the field of safety laser scanners to include a version with a Profinet interface.

With the newly available Profinet interface, the safety laser scanner PSENscan can now also be easily integrated into Profinet networks. Simple wiring enables fast commissioning. The data can be viewed directly in the controller, thereby offering comprehensive and rapid diagnostics. The new PSENscan PN also offers other additional features, such as simultaneous monitoring of up to eight safety zones, up to 15 dynamic reference points that can also be used to change zone sets, and a faster start-up time (< 35 s).



Your benefits at a glance

- Simple inclusion in Profinet networks
- Faster commissioning: Time savings thanks to reduced wiring
- Comprehensive diagnostics options
- Simultaneous monitoring of up to 8 warning or safety zones
- 15 dynamic reference points that can also be used to change the zone sets
- Fast start-up time: < 35 s

The PSENscan PN is available in two versions, optionally with connections on the rear or the bottom of the device. The memory module can be exchanged. This makes it easy to transfer the configuration to a different device.

Our safety experts support you in the integration into your plant, for example for the risk assessment and Declarations of Conformity, as well as with a variety of training options.



Safety laser scanner PSENscan PN



PSEN sc PN 5.5
back



PSEN sc
bracket PR

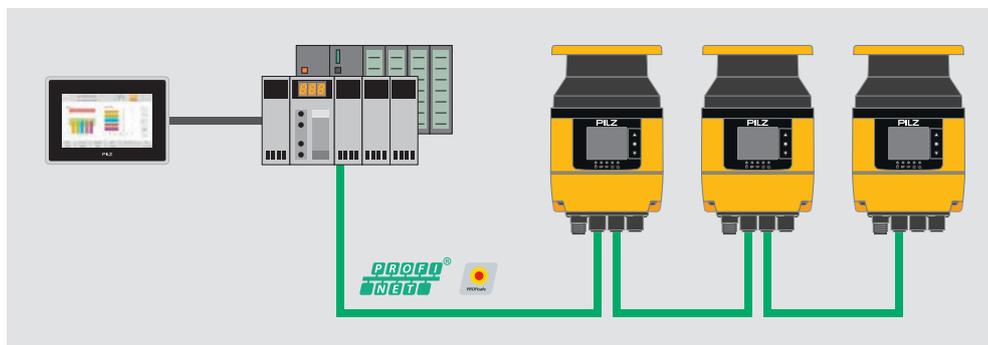


PSEN sc
memory fbus



Cable/PN/RJ45-4SM/
M12-4SMX/D/xxx/
Q324/GN

Type	Features	Order number	
► Base units			
PSEN sc PN 5.5 down	Profinet IO device with PROFIsafe, connections on bottom of device	6D000035	
PSEN sc PN 5.5 back	Profinet IO device with PROFIsafe, connections on rear of device	6D000036	
► Selection guide for accessories			
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 head	Head module	6D000007	
PSEN sc cleaner	Cleaning agent	6D000008	
PSEN sc cloth	Cleaning cloth	6D000009	
PSEN sc bracket F	Mounting bracket for floor attachment	6D000010	
PSEN sc bracket C	Mounting head for corner fastening	6D000011	
PSEN sc memory fbus	Profinet memory module	6D000037	
► Selection guide for cables			
Cable/PN/RJ45-4SM/ M12-4SMX/D/xxx/ Q324/GN	Connection cable for PROFINET, CAT5e, shielded, RJ45 to 4-pin, cable cross section: 4 x 0.34 mm ²	3 m _ C1000001	10 m _ C1000003
		5 m _ C1000002	20 m _ C1000004
Cable/PN/M12-4SMX/ M12-4SMX/D/xx/ Q324/GN	Connection cable for PROFINET, CAT5e, shielded, 4-pin, cable cross section: 4 x 0.34 mm ²	0.5 m _ C1000005	10 m _ C1000008
		3 m _ C1000006	20 m _ C1000009
		5 m _ C1000007	
PSEN cable M12-8sf	Connection cable for I/Os and supply voltage, PUR, cable cross section 0.25 mm ²	3 m _ 540319	20 m _ 540333
		5 m _ 540320	30 m _ 540326
		10 m _ 540321	
PSEN op Ethernet cable	Network connection cable, CAT5e, shielded	1 m _ 631071	10 m _ 631073
		3 m _ 631072	



The safety laser scanner PSENscan with Profinet enables easy and quick wiring and shortens the commissioning times.

Safety laser scanner PSENscan:



www.pilz.com/penscan

► Safety gate system PSENmgate – now even more versatile

NEW

The new product versions of the safety gate system PSENmgate offer you a wide selection – suitable for your individual application. The new versions include a longer housing that provides space for additional control elements such as pushbuttons and illuminated buttons – ideal for applications that require more operating functions at the safety gates. In addition to four buttons, an emergency stop is also integrated.

Another highlight: Versions with upward cable outlet. These enable flexible integration into existing plants and simplify the wiring. Cable routing can be optimised and installation times reduced.

In addition to the existing door handles for sliding gates, there is now a door handle specifically for swing gates. This is available in two different sizes. By combining safety gate system PSENmgate with the door handle, you have an ideal solution for your swing gates.



Your benefits at a glance

- Greater ease of operation: Longer housing types provide space for additional buttons
- Flexible wiring: Versions with cable outlet enable optimum installation to suit the respective machine environment
- Saves time: One integrated system for safety gate guarding simplifies installation and commissioning
- Simple installation: One housing, one plug-in connector
- Space savings: Short housing version 40 x 65 x 238 mm/ long housing version 40 x 94 x 327 mm
- High level of manipulation protection thanks to a coded actuator
- User-friendly diagnostics with 4 LEDs and diagnostic output

Whether in packaging technology, in machine construction or with robot applications: The new versions make additional application fields available

to you and support you in the efficient and flexible implementation of your safety concepts for access guarding.



Safety gate system PSENmgate



PSEN mg1-B-LDLLF-LBA1-U3-D switch



PSEN mg1-B-LDLLF-FBA1-U3-U switch



PSEN mg1-A-LLXXX-RBA1-S1-U switch



PSEN mg1-A-LDFXX-FTA2-U2-U switch



PSEN ml 1.1 actuator

Type	Features	Order number
▶ Long housing version, cable output at bottom		
PSEN mg1-B-LDLLF -LBA1-U3-D switch -RBA1-U3-D switch -FBA1-U3-D switch	▶ Single connection with emergency stop: - 3 illuminated pushbuttons - 1 non-illuminated pushbutton (1 NO each)	▶ Actuator entry - Left - Right - Frontal ▶ Coded
		▶ 6M000013 ▶ 6M000014 ▶ 6M000015
PSEN mg1-B-LDLLF -LBA2-U3-D switch -RBA2-U3-D switch -FBA2-U3-D switch	- 1 E-STOP pushbutton (2 NC + 1 NO) ▶ 19-pin M23 male connector	▶ Actuator entry - Left - Right - Frontal ▶ Fully coded
		▶ 6M000016 ▶ 6M000017 ▶ 6M000018
▶ Long housing version, cable output at top		
PSEN mg1-B-LDLLF -LBA1-U3-U switch -RBA1-U3-U switch -FBA1-U3-U switch	▶ Single connection with emergency stop: - 3 illuminated pushbuttons - 1 non-illuminated pushbutton (1 NO each)	▶ Actuator entry - Right - Left - Frontal ▶ Coded
		▶ 6M000037 ▶ 6M000038 ▶ 6M000039
PSEN mg1-B-LDLLF -LBA2-U3-U switch -RBA2-U3-U switch -FBA2-U3-U switch	- 1 E-STOP pushbutton (2 NC + 1 NO) ▶ 19-pin M23 male connector	▶ Actuator entry - Right - Left - Frontal ▶ Fully coded
		▶ 6M000040 ▶ 6M000041 ▶ 6M000042
▶ Short housing version, cable output at top		
PSEN mg1-A-LLXXX -LBA1-S1-U switch -RBA1-S1-U switch -FBA1-S1-U switch	▶ Single connection without emergency stop: - 2 illuminated pushbuttons (1 NO each) ▶ 12-pin M12 male connector	▶ Actuator entry - Right - Left - Frontal ▶ Coded
		▶ 6M000025 ▶ 6M000026 ▶ 6M000027
PSEN mg1-A-LLXXX -LBA2-S1-U switch -RBA2-S1-U switch -FBA2-S1-U switch		▶ Actuator entry - Right - Left - Frontal ▶ Fully coded
		▶ 6M000028 ▶ 6M000029 ▶ 6M000030
PSEN mg1-A-LLFXX -LBA1-U1-U switch -RBA1-U1-U switch -FBA1-U1-U switch	▶ Single connection with emergency stop: - 2 illuminated pushbuttons (1 NO each) - 1 E-STOP pushbutton (2 NC + 1 NO)	▶ Actuator entry - Right - Left - Frontal ▶ Coded
	▶ 19-pin M23 male connector	▶ Actuator entry - Right - Left - Frontal ▶ Fully coded
		▶ 6M000031 ▶ 6M000032 ▶ 6M000033 ▶ 6M000034 ▶ 6M000035 ▶ 6M000036
PSEN mg1-A-LDFXX -LTA1-U2-U switch -RTA1-U2-U switch -FTA1-U2-U switch	▶ Series connection with emergency stop: - 1 illuminated pushbutton - 1 non-illuminated pushbutton (1 NO each)	▶ Actuator entry - Right - Left - Frontal ▶ Coded
	- 1 E-STOP pushbutton (2 NC + 1 NO) ▶ 19-pin M23 male connector	▶ Actuator entry - Right - Left - Frontal ▶ Fully coded
		▶ 6M000043 ▶ 6M000044 ▶ 6M000045 ▶ 6M000046 ▶ 6M000047 ▶ 6M000048
▶ Actuator		
PSEN ml 1.1 actuator	Coded	570480
PSEN ml 2.1 actuator	Fully coded	570481

Safety gate system PSENmgate:



www.pilz.com/psenmgate

► Modular safety relay myPNOZ

NEW



You can connect up to four safe inputs (dual-channel) to the new input module PNOZ yi5 8DI variable. You thus need fewer modules for the same number of input functions. With the input module PNOZ yi6 4DI bypass you can also implement "Group OR". Several safe input functions can now be muted by others.

Monitor and control gate systems with guard locking with the input module PNOZ yi7 lock. The input module PNOZ yi8 4DI NO/NC is the right choice for monitoring single-channel safety switches or safety light barriers as well as antivalent safety sensors.

The output module PNOZ yo5 2NO 2NO t offers two instantaneous-switching and two delayed-switching outputs.

As a result you need fewer modules, save space and are more flexible in the assembly of your myPNOZ system.



Your benefits at a glance

- Easy-to-use myPNOZ Creator
- Delivery of your individually manufactured, adjusted and tested myPNOZ
- Reliable monitoring of up to 30 safe dual-channel input functions
- Option for several independent safety circuits (zones) within a system
- Output modules optionally delayed and with relay or semiconductor outputs
- Enables AND/OR and Group OR connections of safety inputs

All of the previously available input modules (yi) and input and output modules (yio) were enhanced to include an additional signal output that externally signals the input status. This enables better fault diagnostics.



Overview of the new myPNOZ modules from myPNOZ and technical features



Type	Features	Order number
	<ul style="list-style-type: none"> ▶ Input modules: single/dual-channel circuit with/without detection of shorts ▶ Ambient temperature: -20 °C to +55 °C ▶ Supply voltage: 24 VDC ▶ Safety level up to PL e and SIL CL 3 ▶ TÜV, UL certification ▶ Protection type: IP20 	
Input modules PNOZ yi5 8DI variable	<ul style="list-style-type: none"> ▶ 8 inputs ▶ 4 signal outputs ▶ Variable AND or OR connection for the input functions ▶ Width: 17.5 mm 	2A000016
PNOZ yi6 4DI bypass	<ul style="list-style-type: none"> ▶ 4 inputs ▶ 2 signal outputs ▶ Bypassing of previous safety-related connection ▶ Width: 12.5 mm 	2A000017
PNOZ yi7 lock	<ul style="list-style-type: none"> ▶ 2 input functions and 2 output functions with safe semiconductor output instantaneous ▶ Guard locking management function for safety locking device ▶ Width: 17.5 mm 	2A000018
PNOZ yi8 4DI NO/NC	<ul style="list-style-type: none"> ▶ 4 inputs ▶ 2 signal outputs ▶ Variable AND or OR connection for the input functions for antivalent contacts or single-channel safety functions ▶ Width: 12.5 mm 	2A000020
Output module PNOZ yo5 2NO 2NO t	<ul style="list-style-type: none"> ▶ Relay outputs with adjustable delay-on and switch-off delay option: <ul style="list-style-type: none"> - 2 relay outputs delayed - 2 relay outputs instantaneous ▶ Width: 17.5 mm 	2A000019

Create your safety – individual, tailor-made, easy. Here's how!



You create: You create your individual myPNOZ using the user-friendly myPNOZ Creator.



We build: We produce your myPNOZ tailor-made for you in batch size 1.



You install: You install your myPNOZ via "plug-and-play" and easily put it into operation.



Modular safety relay myPNOZ – modules:



www.myPNOZ.com

► Safe small controllers PNOZmulti Configurator – what's new in Version 11.5/11.6

NEW

The software tool PNOZmulti Configurator is used to create projects with the configurable safe small controller PNOZmulti 2. The tool offers a number of functions with the goal of monitoring machinery with maximum safety and flexibility.



What's new in Version 11.6

Safe Ethernet Connection: A safe data connection can be established on the bit level between automation system PSS 4000 and the safe small controller PNOZmulti 2 if both controllers are to be used in one system architecture. Using software blocks, the previously separate "worlds" can be securely linked via Ethernet. The failsafe block "FS_SafeEthernet_Connection2" is available in the software platform PAS4000 and the block "Safe Ethernet Connection Status" is available in the PNOZmulti Configurator for this purpose. In the case of both blocks, the data that is to be exchanged is simply stored in the respective user program – no further configuration is required. Investment protection for your plant is guaranteed; no need to convert fully to a different system.



Your benefits at a glance

- Software tool can be used free of licensing costs
- Safe data connection between PNOZmulti 2 and PSS 4000
- PNOZmulti 2 – Safe and Secure: Requirements of the Cyber Resilience Act and the Machinery Regulation already met

Save to the cloud on the MYZEL Lifecycle Platform (MLP): All project data are stored centrally at the same point and can be called up there at any time. Shorter project runtimes and simple documentation of your current projects in the new cloud solution from Pilz.

What's new in Version 11.5

PNOZmulti 2 base units – Safe and Secure: Security functions such as user administration and access management have been installed on the PNOZmulti 2 base units to protect the devices from unauthorised access. So the requirements of the Cyber Resilience Act and the Machinery Regulation are already met.

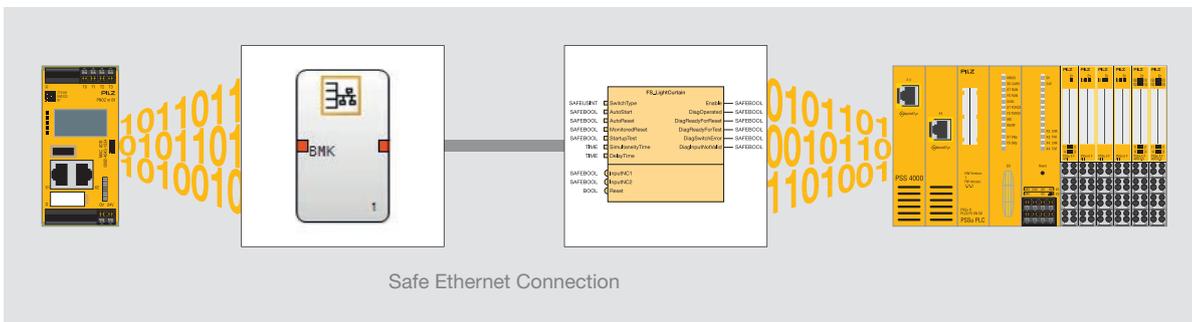


Software tool PNOZmulti Configurator – what's new in Versions 11.6 and 11.5



PNOZmulti Configurator

Type	Features	Order number
	<ul style="list-style-type: none"> ▶ Create, open, edit PNOZmulti 2 projects ▶ Contains all PNOZmulti 2 hardware <p>New in Version 11.6</p> <ul style="list-style-type: none"> ▶ Safe Ethernet Connection Status (SEC) block: For configuration of a safe data connection on the bit level between the automation system PSS 4000 and the base units PNOZ m B1 and PNOZ m B1 Burner of the safe small controller PNOZmulti 2 ▶ Saving project data to the Pilz cloud MYZEL ▶ Up to 6 devices of the electronic access permission system PITreader are supported at the base units PNOZ m B1 and PNOZ m B1 Burner (previously 4) <p>New in Version 11.5</p> <ul style="list-style-type: none"> ▶ All PNOZmulti 2 base units equipped with security functions such as user administration and access management ▶ If you wish to switch from the standard EtherCAT fieldbus module PNOZ m ES EtherCAT to the safe FSoE fieldbus module, the configuration you created is transferred via a migration function when you swap the device 	<p>Basic software is free of licensing costs</p> <p>Information at www.pilz.com/pnozmulti-tools</p> <ul style="list-style-type: none"> ▶ PNOZ m B1 – 772101 ▶ PNOZ m B1 Burner – 772102 ▶ PNOZ m EF EtherCAT FSoE – 772123
Version 10.14.XX “long-term-supported” version	<ul style="list-style-type: none"> ▶ For configuration of the product ranges PNOZmulti Classic and PNOZmulti Mini ▶ This version can be used to migrate PNOZmulti Classic or Mini projects to PNOZmulti 2 ▶ Open, edit, create PNOZmulti Classic/Mini projects 	<p>Basic Licence: 773010B and more</p>



Software blocks to configure a safe data connection between the automation system PSS 4000 and the safe small controller PNOZmulti 2

Software tools – PNOZmulti Configurator:



www.pilz.com/pnozmulti-tools

▶ IO-Link Safety Master PDP67

NEW



As an all-round device, the IO-Link Safety Master PDP67 from Pilz offers a wide range of options to connect the most diverse devices, including IO-Link and IO-Link Safety, safe input and output signals, as well as standard signals. It also expands the functions of a conventional IO-Link Master by adding the option for safe communication for functional safety. The IO-Link Safety Master is the decentralised interface to the higher level safety controller and enables a point-to-point connection up to field level. The module also offers configurable ports, through which it is possible to process safe input and output signals. Due to its robust protection class IP67 or IP69, it can be installed directly on the machine. This saves space in the control cabinet and enables modular plant designs. Thanks to the integration into a dirt and water-repellent IP67 housing, PDP67 reliably ensures safety even in rugged industrial environments.



Your benefits at a glance

- ▶ Maximum flexibility due to suitable connection options for IO-Link, IO-Link Safety, safe input and output signals, standard signals, OSSD
- ▶ Universally configurable, safe inputs and outputs
- ▶ Decentralised installation of safety-related, digital field devices
- ▶ Installation almost anywhere due to compact and robust housing
- ▶ Can be used up to protection type IP67/IP69K
- ▶ Reduced wiring due to plug-and-play with standardised M12 plug-in connections
- ▶ Simple configuration due to proven Pilz tools
- ▶ Integrated web server for rapid fault diagnostics



IO-Link Safety Master PDP67



PDP67 PN
8FDIO 4IOLS



µSD memory card
512 MB M12A



IP67 labels



Caps for L-coded
connections



Caps for IP67
modules

Technical features

- ▶ 4 x IO-Link Safety ports (Class A)
- ▶ 4 x ports, each with two configurable safe digital inputs or outputs
- ▶ PROFINET/PROFIsafe device
- ▶ Interface: M12, 5-pin ports
- ▶ Protection class: IP67/IP69K
- ▶ Housing: Die cast zinc metal
- ▶ Ambient temperature: -30 °C ... +70 °C
- ▶ Functional safety: PL e/SIL 3
- ▶ Application in heights up to 5 000 m

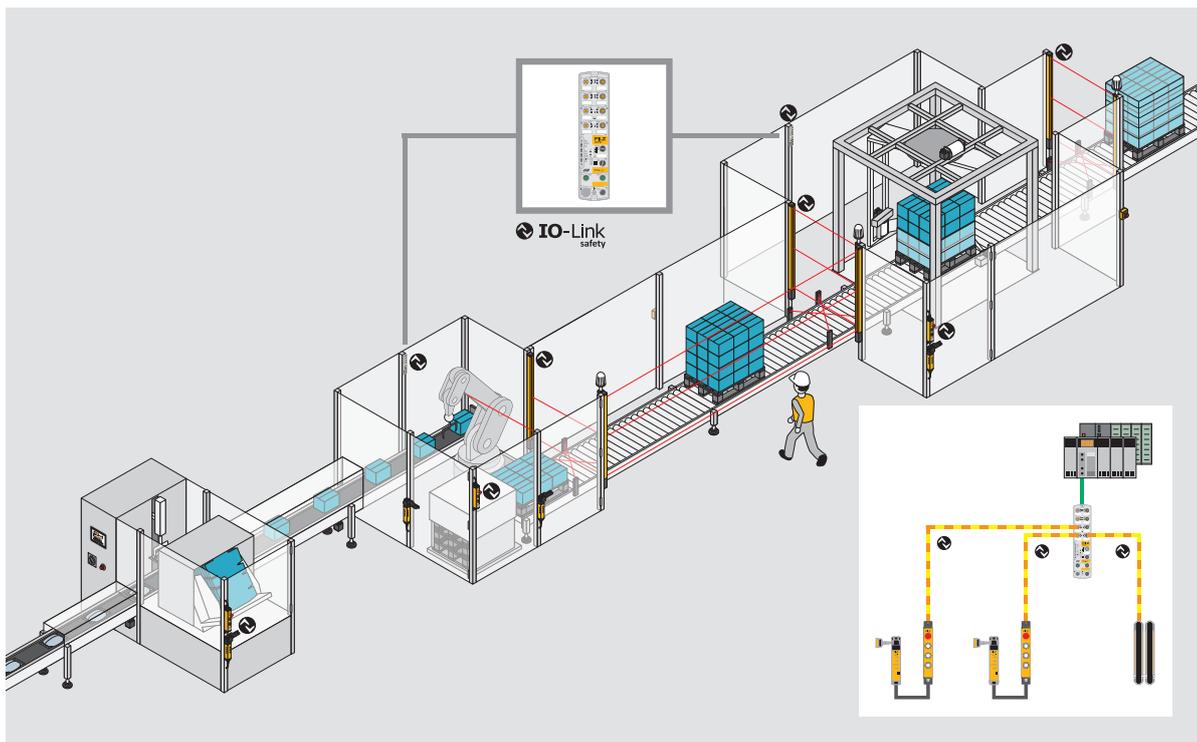
Order number

PDP67 PN 8FDIO 4IOLS 4R000004

Accessories

- ▶ µSD memory card 512 MB M12A 4R000002
- ▶ IP67 labels C1000033
- ▶ Caps for L-coded connections 380328
- ▶ Caps for IP67 modules 380324

Besides the IO-Link Safety Master, Pilz also offers a universal system for IO-Link Safety, comprising Master, field devices such as safety sensors, as well as suitable cables and configuration tools. The complete package makes it easier to integrate IO-Link Safety technology into plant and machinery. So Pilz supplies a complete one-stop system that's safe and reliable.



IO-Link Safety
Master PDP67:



www.pilz.com/pdp67

IO-Link Safety in use on an interlinked packaging plant.



► Manage your machine lifecycle!
Digital. Safe. Secure.

MYZEL®

With MYZEL, you have a constant overview – for more safety, less risk and maximum efficiency across the machine lifecycle! MYZEL is the central nervous system for the safe, legally compliant and productive



PILZ
THE SPIRIT OF SAFETY

operation of plant and machinery throughout the machine lifecycle. The platform connects human and machine in an intelligent, structured environment that's always available.



Why not see for yourself:
Start your 30-day free trial now!

www.myzel.com

► IndustrialPI® – the industrial PC that adapts to all your needs

NEW

With IndustrialPI, Pilz supports you in the implementation of the most varied applications in industrial automation. Thanks to the modular design, the open, Linux-based operating system and the integrated interfaces, IndustrialPI is a true all-rounder. IndustrialPI is versatile, whether purely as an industrial PC, as an industrial controller (soft PLC) or as an IIoT gateway for your data. It is thus ideally equipped to implement your IIoT, automation and motion projects in industrial automation environments. The industrial PC is based on the familiar Raspberry Pi technology. The compute module was installed in a housing that was developed specifically for industrial use, including an expansion board for interfaces and connections suitable for industrial applications. IndustrialPI can be expanded using suitable digital and analogue I/O modules as required.

IIoT gateway:

As a gateway for the Industrial Internet of Things (IIoT), IndustrialPI collects data in the immediate vicinity of plant and machinery and connects the IIoT to cloud services. You thus have access to your data from around the world, from any location.



Your benefits at a glance

- The optimum solution for many industrial application areas
- Enables flexible use as an automation controller or IIoT gateway, tailored to your application
- Rugged housing and 24 V connection allow industrial application
- Can be integrated into all common system architectures
- Simple programming possible

Automation controller:

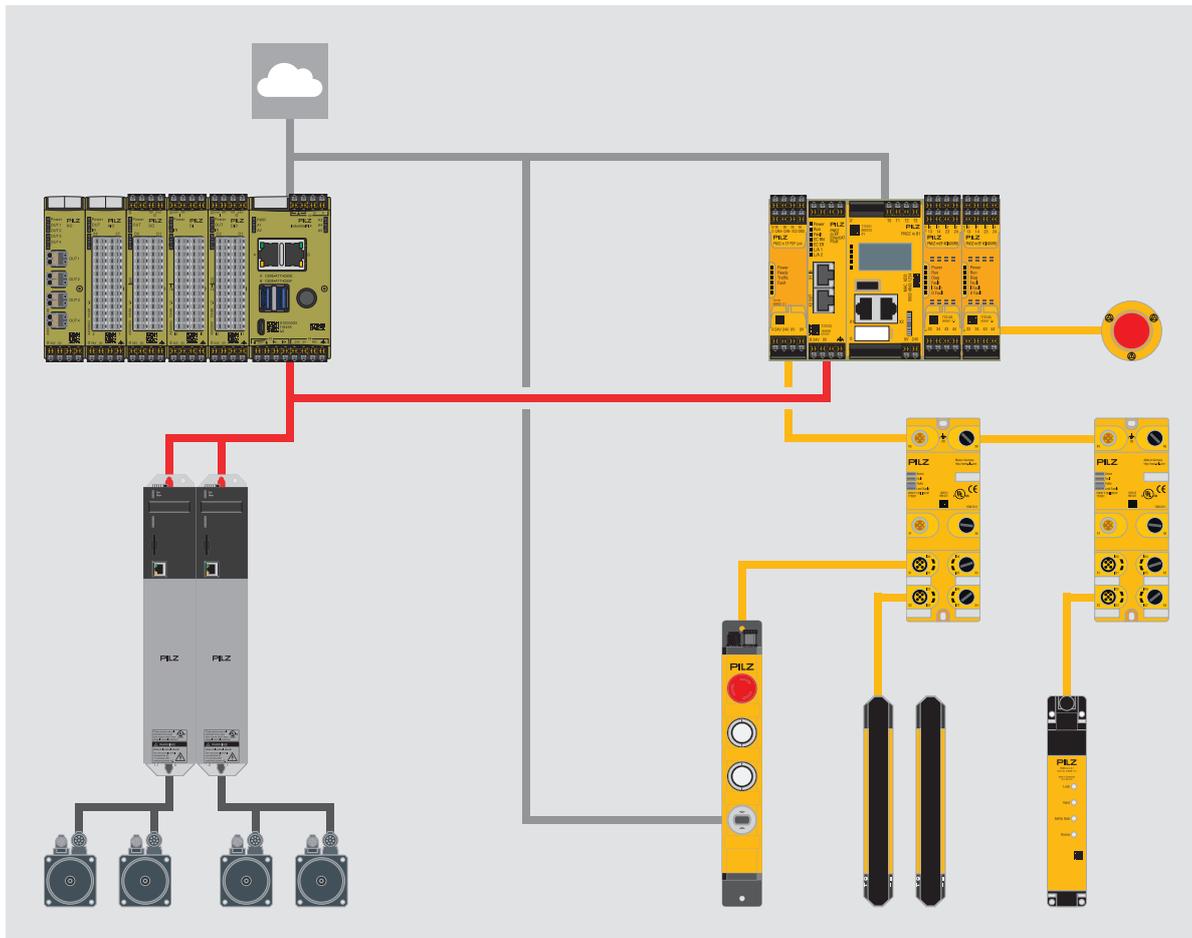
With IndustrialPI you have a flexible solution for your automation task, as it can be used as a modular and powerful soft PLC for a wide variety of automation projects. From pure control applications to synchronous axis movements in your machine's powertrain: We have the right automation solution for your application!



IndustrialPI – the industrial PC that adapts to all your needs



Type	Technical features	Order number
IndustrialPI 4	<ul style="list-style-type: none"> ▶ Processor: Quad-core Cortex-A72 with 1.5 GHz ▶ RAM: 4 or 8 GB RAM ▶ Memory: 32 GB eMMC ▶ Interfaces: <ul style="list-style-type: none"> - 2 x USB A 3.2 Gen 1 - 2 x RJ45 Gbit Ethernet - 1 x RS485, 1 x Micro-USB socket - 1 x Micro HDMI 2.0a (4K) - 2 x PiBridge - Optional on the 8 GB version: <ul style="list-style-type: none"> 1 x RP-SMA female connector for connection of an external WLAN/BT antenna (2.4/5 GHz) ▶ Protection type: IP 20 ▶ Housing dimensions (H x W x D): 96 x 45 x 110.5 mm 	<ul style="list-style-type: none"> ▶ IndustrialPI 4 4GB 32GB: A1000002 ▶ IndustrialPI 4 8GB 32GB Wifi: A1000003 <p>Expansion modules:</p> <ul style="list-style-type: none"> ▶ IndustrialPI DIO: A3000001 ▶ IndustrialPI DI: A3000002 ▶ IndustrialPI DO: A3000003 ▶ IndustrialPI AIO: A3000004 ▶ IndustrialPI RO: A3000005



IndustrialPI as an automation controller and IIoT gateway for machinery with synchronous axis movements



www.pilz.com/industrial-pc

► Servo amplifiers PMC SC6 and SI6 – Safe control right up to the drives

NEW

With drive-integrated safe motion, your servo amplifier achieves safety up to Performance Level PL e with all common motor feedbacks and fieldbuses. You receive a flexible and scalable safety solution through the individual combination of all safety functions that your application requires. Plant downtimes are reduced and, despite the different safety requirements of the machine components, maximum productivity is achieved. Benefit from drive-integrated safe motion functions in accordance with EN 61800-5-2 to PL e as well as the corresponding motion monitoring functions such as SS1, SS2, SOS, SOS-M, SLS, SLS-M, SDI, SDI-M, SLI, SLI-M, SSR, SSR-M. Using FSoE (FailSafe over EtherCAT), the safe motion solution is integrated into the machine's safety concept, for example with the safe small controller PNOZmulti 2 as the control centre. FSoE also ensures safe cross-communication between the drives. With safe motion within the drive, you save time, reduce errors and increase safety during set-up!



Your benefits at a glance

- High plant availability thanks to short reaction times and prevention of standstills
- Safety up to PL e with one encoder (standard feedback system)
- Higher productivity thanks to motion monitoring safety functions with the flexibility to adjust the error reaction
- Flexible configuration and rapid commissioning
- Less wiring thanks to FSoE connection
- Open drive solution independent of motor types and feedback systems
- Single-axis or double-axis controller with an output rated current up to 50 A and 250 % overload capability
- Cycle times from 250 µs
- Integrated brake control
- Automatic motor parametrisation via the electronic nameplate with the synchronous servo motors PMC EZ



Servo amplifier PMC SC6/SI6 Safe Motion

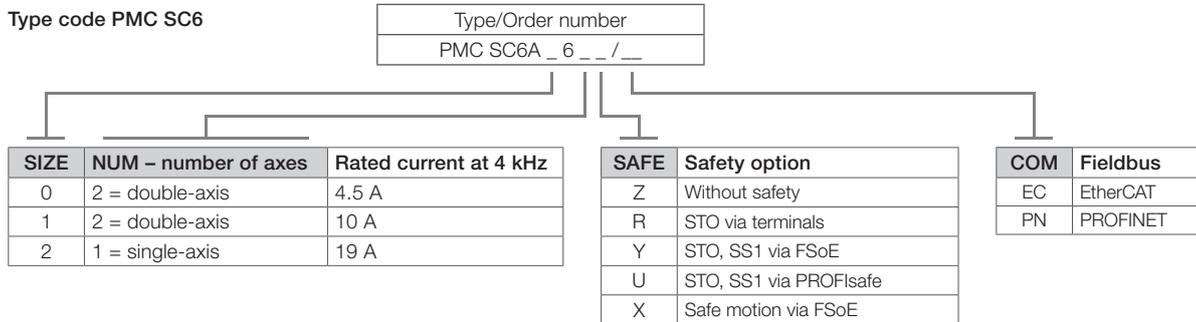
With the servo amplifiers PMC SC6 and SI6, we offer the right solution for every drive task. Combine the two drive controller series PMC SC6 and PMC SI6 and benefit from high flexibility for machinery of varying complexity.



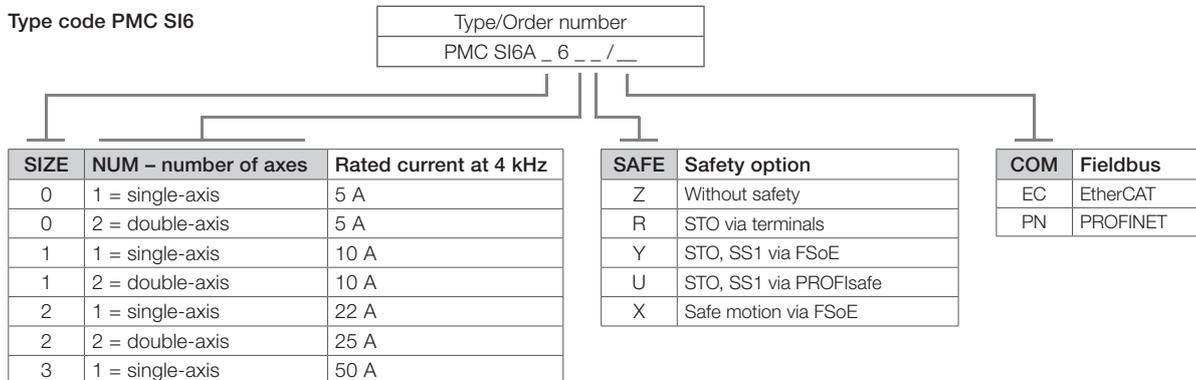
PMC SC6/
PMC SI6

Type	Technische Merkmale
	<ul style="list-style-type: none"> ▶ Dimensions in mm (W x H x D): from 45 x 343 x 265 ▶ Interfaces: EtherCAT, PROFINET ▶ Safety functions: STO (Terminals), SSI (FSoE, PROFIsafe), Safe Motion (FSoE) ▶ Number of digital inputs: 8 ▶ Supply voltage type: 24 V DC ▶ Ambient temperature: 0 ... 45 °C ▶ Output stage clock frequency: 4 kHz, 8 kHz ▶ Encoder interfaces: EnDat 3, EnDat 2.2, EnDat 2.1 (12 VDC), SSI, incremental TTL, incremental HTL, pulse/direction HTL, Resolver
Servo amplifier PMC SC6	▶ Output current: up to 19 A (4 kHz), 15 A (8 kHz)
Servo amplifier PMC SI6	▶ Output current: up to 50 A (4 kHz), 40 A (8 kHz)

Type code PMC SC6



Type code PMC SI6



Servo amplifier
PMC SC6/SI6:



www.pilz.com/pmcmodulo

► Pushbutton unit PITgatebox with IO-Link Safety

NEW

The pushbutton unit PITgatebox combines pushbutton, key switch and E-STOP pushbutton in one compact control unit – individually configurable for your application. Thanks to the slimline design, the robust control unit can be installed quickly and easily on standard profile systems. The PITgatebox gives you a modular safety gate solution tailored to your particular needs, especially when combined with the safety locking devices PSENmlock and PSEnlock 2.

New: Pushbutton unit PITgatebox with IO-Link Safety – for maximum transparency and productivity. Thanks to IO-Link Safety, you receive live data on the gate status and operating state directly to your system. This not only simplifies commissioning and maintenance, but also enables predictive maintenance – for higher availability and reduced downtimes. The PITgatebox IOLS can be operated as a stand-alone device or in conjunction with other safety switches, with and without guard locking. Each preconfigured version with various cable outputs, push-buttons and E-STOP pushbuttons provides maximum flexibility for individual applications.



Your benefits at a glance

- Maximum safety: Safety level up to PL e, Category 4 (ISO 13849-1) and SIL 3 (IEC 61508)
- Complies with Port Class A in accordance with the IO-Link Safety specification
- Rapid installation thanks to 4-pin M12 connection
- Scalability: Connection of more sensors per IO-Link Safety port
- Transparent status monitoring: Digitisation of the status data with IO-Link Safety
- Efficient commissioning and maintenance

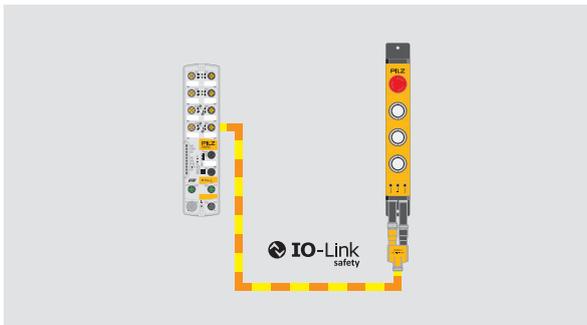


PITgatebox with IO-Link Safety

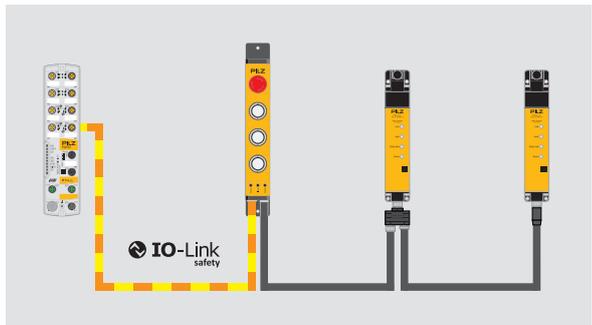
Type	Technical features	Order number
 PIT gb LLLLE down IOLS	IO-Link Safety pushbutton unit ▶ With 1 E-STOP pushbutton and 2 or 3 illuminated pushbuttons ▶ 8-pin M12 female connector and 4-pin M12 male connector ▶ PL e, Cat. 4 (EN ISO 13949-1) ▶ SIL 3 (IEC 61508) ▶ Robust die cast zinc housing ▶ Installation: Rotatable mounting bracket (metal) ▶ Protection type: IP65	
 PIT gb LLLLE down IOLS	▶ Pushbutton unit PITgatebox IO-Link Safety ▶ With 1 E-STOP pushbutton and 3 illuminated pushbuttons ▶ 8-pin M12 female connector and 4-pin M12 male connector ▶ Connector at bottom ▶ Incl. coloured cap set	G1000023
 PIT gb CLLE down IOLS	▶ Pushbutton unit PITgatebox IO-Link Safety ▶ With E-STOP and 2 illuminated pushbuttons ▶ 8-pin M12 female connector and 4-pin M12 male connector ▶ Connector at bottom ▶ Incl. coloured cap set	G1000025

Application examples:

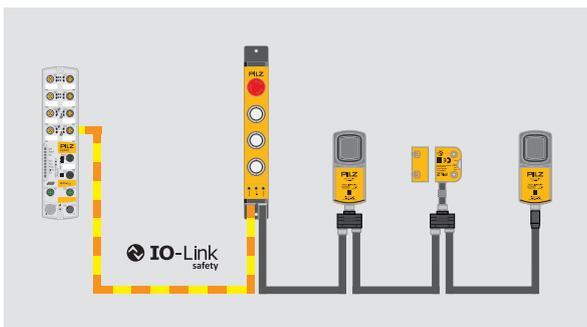
The connection of additional safety sensors and pushbutton units, in single or series connection, such as PSEnmlock, PSEnslock 2, PSEncs and additional PITgatebox IOLS is possible.



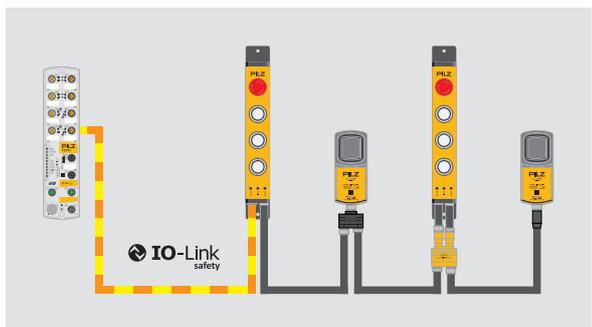
PITgatebox IOLS stand-alone (with adapter)



PITgatebox IOLS with PSEnmlock



PITgatebox IOLS with PSEnslock 2 and PSEncs



PITgatebox IOLS with additional PITgatebox IOLS and PSEnslock 2

Pushbutton unit PITgatebox:



www.pilz.com/pitgatebox

► Pushbutton unit PITgatebox with PITreader card unit

NEW

With the pushbutton unit PITgatebox, you can easily and flexibly control safety gate switches and systems. Thanks to the integration of PITreader card unit, it is possible to authenticate users before operation of the gate via an RFID transponder in card format. Depending on the qualification and function of the employees, it is possible to ensure that only the correct group of people has access to the system. Commands such as activate, stop or reset your plant or machinery can only be controlled here following successful authentication. Your machinery is thus optimally protected against incorrect operation or even manipulation.

The company's existing RFID-capable cards can also be used in addition to PITreader card; the familiar PITreader keys can also continue to be used. Thanks to the slimline design, the robust operating unit is quick and easy to fit to conventional profile systems. The PITgatebox gives you a modular safety gate solution tailored to your particular needs, especially when combined with the secure safety locking devices PSENmlock and PSENslock.



Your benefits at a glance

- Simple operating function meets premium quality and design
- PITreader card with RFID transponder in card form for activation of the PITgatebox (freely writeable or pre-configured)
- PITreader key and/or existing RFID cards can be used
- Robust die cast zinc metal housing
- Easy assembly thanks to the narrow housing and integrated rotatable mounting bracket
- Fast installation without wiring thanks to the 12-pin M12 connection



Pushbutton unit PITgatebox with PITreader card unit – control unit with access permission system



PIT gb QLLE
y up ETH



PIT gb QLLE
y down ETH



PITreader card ye g



PITreader sticker ye g



PITreader key ye g

Type	Technical features	Order number
	<ul style="list-style-type: none"> ▶ E-STOP pushbuttons: 2 NC contacts/1 NO contact ▶ Position 1: Illuminated pushbutton (1 NO) ▶ Position 2: Illuminated pushbutton (1 NO) ▶ Position 3: Illuminated PITreader (1 NO) ▶ 2 x M12 plug-in connectors <ul style="list-style-type: none"> - M12, 4-pin (Ethernet) for PITreader - M12, 12-pin for contacts ▶ Robust die cast zinc metal housing ▶ Slimline design, 40 mm profile ▶ Rotatable mounting bracket (-90°, +90°, +180°) 	
PIT gb QLLE y up ETH	Cable outlet: Top	G1000041
PIT gb QLLE down ETH	Cable outlet: Bottom	G1000042
PITreader card cap	Silicone cap for PITreader (S) card as spare part	402322
PITreader card ye g	GENERIC transponder card for PITreader card, freely configurable	402330
PITreader card ye 1 ... ye 5	Transponder card for PITreader card <ul style="list-style-type: none"> ▶ Permission 1 ▶ Permission 2 ▶ Permission 3 ▶ Permission 4 ▶ Permission 5 	402331 402332 402333 402334 402335
PITreader card ye 5 service	Transponder card for PITreader, authorisation 5 = service function	402339
PITreader sticker ye g	GENERIC transponder sticker for PITreader card, freely configurable	402340
PITreader sticker ye 1 ... ye 5	Transponder sticker for PITreader card <ul style="list-style-type: none"> ▶ Permission 1 ▶ Permission 2 ▶ Permission 3 ▶ Permission 4 ▶ Permission 5 	402341 402342 402343 402344 402345
PITreader sticker ye 5 service	Transponder sticker for PITreader, authorisation 5 = service function	402349
PITreader key ye g	GENERIC transponder key for PITreader card, freely configurable	402260
PITreader key ye 1 ... ye 5	Transponder key for PITreader card <ul style="list-style-type: none"> ▶ Permission 1 ▶ Permission 2 ▶ Permission 3 ▶ Permission 4 ▶ Permission 5 	402261 402262 402263 402264 402265
PITreader key ye 5 service	Transponder key for PITreader, authorisation 5 = service function	402269



Authentication with PITreader card in the PITgatebox

Pushbutton unit PITgatebox with PITreader card unit:



www.pilz.com/pitgatebox

► Fundamentals of Industrial Security

NEW



Fundamental

Are you ready? Step into the world of Industrial Security:

Cyber-attacks, OT security, new requirements – right now is the time to be smart and plan ahead:

Learn the essentials in the training “Fundamentals of Industrial Security” from Pilz now and protect yourself and your machines from manipulation and cyber-attacks!

Digitisation, networking of machinery and digital elements in automation require Industrial Security to be considered in order to protect machinery. The aim of this training is to build up basic knowledge of Industrial Cyber Security: Basic terminology, concepts and regulatory requirements enable participants to access the subject through clear, practical examples, and communicate basic specialist knowledge of cyber security in the machinery sector.

This Industrial Cyber Security Training provides an optimum basis for acquiring the knowledge needed to improve the security of your own industrial plant and machinery.



Your benefits at a glance

- Quick introduction to the subject of Industrial Security
- Compact knowledge-building on terminology and requirements
- Understand cyber-security in the context of machinery and network security
- Best practices for understanding cybersecurity risks in in-house production

Further information on Industrial Security training courses can be found on our website at: www.pilz.com/security-trainings



Fundamentals of Industrial Security

<p>Training Details</p>	<p>Duration of the training 1 day online or on-site format</p> <p>Contents</p> <ul style="list-style-type: none"> ▶ Introduction to Industrial Security <ul style="list-style-type: none"> - Motivation for cyber-security in industrial automation - Machinery Safety and Industrial Security - Differences between Operational Technology (OT) and Information Technology (IT) ▶ Fundamentals of network security <ul style="list-style-type: none"> - Types of networks, devices and industrial protocols - Open Systems Interconnection (OSI) model - Network segmentation ▶ Legislation and standards <ul style="list-style-type: none"> - Machinery Regulation - Cyber Resilience Act (CRA) - NIS 2 Directive - Relevant legislations from outside EU - Overview of Industrial Security standards - Foundations of IEC 62443 - Introduction to IEC TS 63074 ▶ Threats, protective measures and best practice <ul style="list-style-type: none"> - Possible threat scenarios - Cyber Kill Chain framework - Weaknesses and vulnerabilities - Defence in-depth ▶ Impact of cyber-attacks on OT systems ▶ Basis of security risk assessment <ul style="list-style-type: none"> - Risk analysis according to IEC 62443-3-2 - Zones and conduits requirements
<p>Target Group</p>	<p>This training is aimed at all employees of machine manufacturers, integrators and operators who are looking for an introduction to the subject of Industrial Security. The training is particularly suitable for those who are responsible for Machinery Safety in day-to-day operations, such as:</p> <ul style="list-style-type: none"> ▶ Design engineers ▶ Project managers ▶ Planners ▶ System integrators ▶ Safety officers ▶ Production managers/those responsible for production ▶ Those responsible for upgrades and maintenance of plant and machinery ▶ Technical purchasers

Training –
Fundamentals of
Industrial Security:



[www.pilz.com/
security-trainings](http://www.pilz.com/security-trainings)

► Machinery Safety worldwide – Service machine acceptance

NEW

Design Risk Assessment, Factory Acceptance Test and Site Acceptance Test from one source

During the design, manufacture and commissioning of machines, different legal and standards requirements often apply for the region. This can quickly lead to confusion. To ensure that the entire process is carried out successfully and compliant with standards, the respective legal requirements must also be known across borders and implemented correctly in practice.

Machine manufacturers must retain an overview of the compliance requirements in the regions they wish to deliver their machines to. Machine users must be certain that the machines imported by them from different regions of the world meet all the legal requirements for operation in their region.

Pilz service for machine acceptance begins with the construction of the machine. We accompany our customers from the start: From risk assessment in the design phase, through validation at the manufacturer, to acceptance when placing the machines on the market.



Your benefits at a glance

- Safety right from the start: From design to commissioning of the machine
- Liability protection: Compliance of your machines through consultation and support by Pilz safety experts
- Global network, local contact: Support in the design and application of standards and directives around the world
- Investment protection thanks to our standardised consulting process, taking into account safety-related topics in an early product phase
- Same quality standards and uniform documentation around the world



The machine acceptance service aims to detect possible hazards and residual risks very early in the design process of a machine in order to save costs for future retrofits and to use design recommendations to minimise potential accident risks during the entire service life of the machine.

Our services know no borders: Regardless of where plant or machinery is built or where it is delivered or operated – we guarantee identical standards in automation and safety all around the world. And ensure that your machinery meets the respective requirements in all phases.

The service is generally performed in the following 3 process steps

Procedure

1. DRA – Design Risk Assessment

- ▶ Evaluation of the risk assessments and design drawings of the manufacturer, taking into account the operator's specification and the compliance requirement at the point of use
- ▶ Listing of the required measures to increase safety and productivity

2. FAT – Factory Acceptance Test

- ▶ Validation of the implemented safety functions at the machine, taking into account the operator's specification and the compliance requirement at the point of use
- ▶ Check and verification that the necessary safety measures for risk reduction have been implemented
- ▶ Detailed documentation for validation

3. SAT – Site Acceptance Test

- ▶ Safety assessment of the machine when commissioning at the point of use, taking into account the machine environment
- ▶ Final validation of the implemented safety functions, where necessary
- ▶ Final check and verification that the implemented safety measures correspond to the relevant compliance requirements
- ▶ Recommendations for additional measures for safe operation



Machine Acceptance Service:



www.pilz.com/machine-acceptance

Pilz safety experts advise you from the machine purchase to commissioning:
www.pilz.com/services

Support

Technical support is available from Pilz round the clock.

Americas

Brazil

+55 11 97569-2804

Canada

+1 888 315 7459

Mexico

+52 55 5572 1300

USA (toll-free)

+1 877-PILZUSA (745-9872)

Asia

China

+86 400-088-3566

Japan

+81 45 471-2281

South Korea

+82 31 778 3390

Australia and Oceania

Australia

+61 3 95600621

New Zealand

+64 9 6345350

Europe

Austria

+43 1 7986263-444

Belgium, Luxembourg

+32 9 3217570

France

+33 3 88104003

Germany

+49 711 3409-444

Ireland

+353 21 4804983

Italy, Malta

+39 0362 1826711

Scandinavia

+45 74436332

Spain

+34 938497433

Switzerland

+41 62 88979-32

The Netherlands

+31 347 320477

Türkiye

+90 216 5775552

United Kingdom

+44 1536 460866

You can reach our international hotline on:

+49 711 3409-222

support@pilz.com

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.



Partner of the Engineering Industry Sustainability Initiative



Presented by:

Pilz GmbH & Co. KG
Felix-Wankel-Straße 2
73760 Ostfildern, Germany
Tel.: +49 711 3409-0
E-Mail: info@pilz.com, Internet: www.pilz.com

We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany
Telephone: +49 711 3409-0, E-Mail: info@pilz.com, Internet: www.pilz.com

Printed on 100 % recycled paper for the good of the environment.

7-8-en-3-022, 2025-10 Printed in Germany
© Pilz GmbH & Co. KG, 2025

CECE, CHRE, CMSE®, INDUSTRIAL P®, Leansafe®, Myzei®, PAS4000®, PAScal®, PASconfig®, Pilz®, PIT®, PMCPirimo®, PMCProtego®, PMCiendo®, PMD®, PMi®, PNOZ®, Primo®, PSEN®, PSS®, PVS®, SafetyBUS p®, SafetyNET p®, THE SPIRIT OF SAFETY® are registered and protected trademarks of Pilz GmbH & Co. KG in some countries. We would point out that product features may vary from the details stated in this document, depending on the status at the time of publication and the scope of the equipment. We accept no responsibility for the validity, accuracy and entirety of the text and graphics presented in this information. Please contact our Technical Support if you have any questions.

PILZ
THE SPIRIT OF SAFETY