

## Content Pilz Application Notes



### **Product**

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All other	-	Only editorial	all

## Validity of Application Note

This present Application Note is valid until a new version of the document is published. This and other Application Notes can be downloaded in the latest version and for free from [www.pilz.com](http://www.pilz.com). For a simple search, use our [content document \(1002400\)](#) or the [direct search function](#) in the download area.

The [Pilz newsletter](#) is free of charge and keeps you up-to-date on all the latest issues and trends in safe automation.

## Exclusion of Liability

We have taken great care in compiling our application note. It contains information about our company and our products. All statements are made in accordance with the current status of technology and to the best of our knowledge and belief.

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We are grateful for any feedback on the contents.

April 2022

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## Industrial Security

To secure plants, systems, machines and networks against cyberthreats it is necessary to implement (and continuously maintain) an overall [Industrial Security concept](#) that is state of the art.

Perform a risk assessment in accordance with VDI/VDE 2182 or IEC 62443-3-2 and plan the security measures with care. If necessary, seek advice from [Pilz Customer Support](#).

## Abbreviations

Abbreviation / term	Description	Source
AN	Application Note	<a href="http://www.pilz.com &gt; AN.content (1002400)">www.pilz.com &gt; AN.content (1002400)</a>
PNOZ	Pilz E-STOP positive-guided (DE: Pilz <b>NOT</b> -AUS-Zwangsgeführt)	<a href="http://www.pilz.com &gt; PNOZ">www.pilz.com &gt; PNOZ</a>
PSS	Programmable control system (DE: Programmierbares Steuerungssystem)	<a href="http://www.pilz.com &gt; PSS">www.pilz.com &gt; PSS</a>
PSS u2	<b>PSS</b> universal, 2 <sup>nd</sup> generation	<a href="http://www.pilz.com &gt; PSS u2">www.pilz.com &gt; PSS u2</a>
POU	Program Organisation Unit	
NC	Normally Closed	
NO	Normally Open	

## Definition of Symbols

- Information that is particularly important is identified as follows:



### CAUTION!

This refers to a hazard that can lead to a less serious or minor injury plus material damage, and also provides information on preventive measures that can be taken.



### NOTICE

This describes a situation in which the product or devices could be damaged and also provides information on preventive measures that can be taken. It also highlights areas within the text that are of particular importance.



### INFORMATION

This gives advice on applications and provides information on special features.

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# 1 Useful documentation

Application Notes provide additional information for users regarding the usage of Pilz products. These information replenish the information given by the product's operating manual but do not supersede them.

Application Note describe frequently occurring applications and basic applications to help users employ and to give him more ideas for utilize of Pilz products.

To facilitate the selection of different topics content, this document provides an overview of all currently existing Application Notes.

This register is not a restricted selection, but it will be expanded and updated constantly.

The Pilz Application Notes can be downloaded for free from the Pilz website ([www.pilz.com](http://www.pilz.com)).

To simplify the search, the Application Notes listed in this PDF document can be downloaded from the Pilz download area in its latest version by clicking on the hyperlinks.

**Note:**

To apply the hyperlinks used in this PDF document, you will need a computer that is connected to the Internet.

## 2 Application Notes sorted by product groups

### 2.1 Sensor technology

Product	Description	DE	EN
PSENmech	PSS 4000 Safety Gate with PSENmech (me2) Instruction List [1002024]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) PASmulti [1002255]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) Structured Text [1002516]	<a href="#">DE</a>	<a href="#">EN</a>
	Fault exclusion on interlocking device with guard locking PSEN me1 [1003165]	<a href="#">DE</a>	<a href="#">EN</a>
	PSEN me5 Fault Exclusion [1005752]		<a href="#">EN</a>
PSENcode	Safety gate monitoring on PMCprotego DS with PNOZ mm0p and PSENcs (SS2) [1002085]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION [1002460]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION HP [1002541]	<a href="#">DE</a>	<a href="#">EN</a>
PSEnbolt	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION [1002460]	<a href="#">DE</a>	<a href="#">EN</a>
	Fault exclusion on interlocking device with guard locking PSEN me1 [1003165]	<a href="#">DE</a>	<a href="#">EN</a>
PSENslock	PSS 4000 Safety Gate with PSENslock Instruction List [1002026]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENslock PASmulti [1002257]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENslock Structured Text [1002518]	<a href="#">DE</a>	<a href="#">EN</a>
PSENsgate	Monitoring and guard lock a safety gate using the safety gate system PSENsgate [1002385]	<a href="#">DE</a>	<a href="#">EN</a>
PSENmlock	Safe Monitoring and guardlock with PSENmlock [1004124]	<a href="#">DE</a>	<a href="#">EN</a>
PSENopt	Light beam PSEN op4S operated with PNOZ m0p [1002251]	<a href="#">DE</a>	<a href="#">EN</a>
	Light beam PSEN op4S operated with PSS DI2O T (PSS3000) [1002252]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Instruction List [1002025]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) PASmulti [1002256]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Structured Text [1002517]	<a href="#">DE</a>	<a href="#">EN</a>

<b>Product</b>	<b>Description</b>	<b>DE</b>	<b>EN</b>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION HP [1002541]	<a href="#">DE</a>	<a href="#">EN</a>
PSENOpt	PSS 4000 Light Curtain with PSENOpt – Ladder Diagram [1004295]	<a href="#">DE</a>	<a href="#">EN</a>
PSEnvip	Definition of the protected field of the camera-based protection system PSEnvip [1002975]	<a href="#">DE</a>	<a href="#">EN</a>

## 2.2 Relays

Product	Description	DE	EN
PNOZpower	PSS u2 I/O PROFINET with PROFI-safe Profile on a SIMATIC S7-1500 with TIA Portal [1004479]	<a href="#">DE</a>	<a href="#">EN</a>
myPNOZ	myPNOZ: Signal forwarding to another myPNOZ [1005677]	<a href="#">DE</a>	



## 2.3 Control technology

Product	Description	DE	EN
PNOZmulti controllers	Light beam PSEN op4S operated with PNOZ m0p [1002251]	<a href="#">DE</a>	<a href="#">EN</a>
	PNOZmulti Serial-to-Ethernet connection [1001958]		<a href="#">EN</a>
	Safely limited speed on PMCprotego DS with PNOZ m1p (SLS) [1002086]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENsgate [1002385]	<a href="#">DE</a>	<a href="#">EN</a>
	Safety gate monitoring on PMCprotego DS with PNOZ mm0p and PSENcs (SS2) [1002085]	<a href="#">DE</a>	<a href="#">EN</a>
	STO classified PL e using PMCprotego D and PNOZ mm0p [1002189]	<a href="#">DE</a>	<a href="#">EN</a>
	STO classified PL e using PMCprotego D.48 or PMCprotego D.72 and PNOZ mm0p [1002398]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION [1002460]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION HP [1002541]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENsgate 2 with PNOZ m B1 [1003958]	<a href="#">DE</a>	<a href="#">EN</a>
	Safe Monitoring and guardlock with PSEnmlock [1004124]	<a href="#">DE</a>	<a href="#">EN</a>
	PNOZ m ES CC-Link with Mitsubishi Q-Series [1004308]		<a href="#">EN</a>
PNOZmulti I/O modules	Safely limited speed on PMCprotego DS with PNOZ m1p (SLS) [1002086]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENsgate [1002385]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION [1002460]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION HP [1002541]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENsgate 2 with PNOZ m EF 1MM [1003958]	<a href="#">DE</a>	<a href="#">EN</a>
PSScompact (PSS3000)	PSS Serial-to-Ethernet connection [1001962]	<a href="#">DE</a>	<a href="#">EN</a>
PSSmodular head modules	Light beam PSEN op4S operated with PSS DI2O T (PSS3000) [1002252]	<a href="#">DE</a>	<a href="#">EN</a>
PSSuniversal controller	PSS 4000 Emergency Stop with PITestop Instruction List [1002023]	<a href="#">DE</a>	<a href="#">EN</a>

Product	Description	DE	EN
PSSuniversal controller	PSS 4000 Safety Gate with PSENmech (me2) Instruction List [1002024]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Instruction List [1002025]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENslock Instruction List [1002026]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Modbus TCP configuration [1002065]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop PASmulti [1002254]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) PASmulti [1002255]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) PASmulti [1002256]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENslock PASmulti [1002257]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop Structured Text [1002515]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) Structured Text [1002516]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Structured Text [1002517]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENslock Structured Text [1002518]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop Ladder Diagram [1003985]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt – Ladder Diagram [1004295]	<a href="#">DE</a>	<a href="#">EN</a>
	Variant selection with application parameters [1004532]	<a href="#">DE</a>	
	Control of burner safety valves with PSS outputs according to EN 50156 [1005745]		<a href="#">EN</a>
	Safe operating mode selection with PSS 4000, PITreader and keypad PIT oe 4S (PSSu PITmode flex) [1005822]	<a href="#">DE</a>	<a href="#">EN</a>
	Safe operating mode selection with PSS 4000, PITreader and PMI (PSSu PITmode flex visu) [1005823]	<a href="#">DE</a>	<a href="#">EN</a>
PSS u2	PSS u2 I/O PROFINET with PROFIsafe Profile on a SIMATIC S7-1500 with TIA Portal [1004479]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS u2 I/O EtherNet/IP with CIP Safety Protocol on a Allen-Bradley ControlLogix with Studio 5000 [1004684]		<a href="#">EN</a>

Product	Description	DE	EN
PSS u2	PSS u2 IO-Link Master with PROFINET Headmodul on a SIMATIC S7-1500 [1005142]	<a href="#">DE</a>	<a href="#">EN</a>
PSSuniversal communication	PSSu DeviceNet with Beckhoff [1001760]		<a href="#">EN</a>
	PSSu DeviceNet (AB) with ControlLogix [1001768]		<a href="#">EN</a>
	PSSu 312 040 Profinet with SIMATIC S7 [1001906]		<a href="#">EN</a>
	PSSu 312 043 Profinet with SIMATIC S7 [1001907]	<a href="#">DE</a>	<a href="#">EN</a>
	PSSu Profibus DP with SIMATIC S7 [1001754]		<a href="#">EN</a>
	PSSu serial I/O-Communication [1002064]	<a href="#">DE</a>	<a href="#">EN</a>
	PSSu CANopen [1001996]		<a href="#">EN</a>
	PSS 4000 EtherNet/IP communication with Allen-Bradley PLCs [1003034]		<a href="#">EN</a>
	PSSu H F PN to Siemens 840D sl via PROFINET safety [1003742]	<a href="#">DE</a>	
	PSS u2 I/O PROFINET with PROFSafe Profile on a SIMATIC S7-1500 with TIA Portal [1005258]	<a href="#">DE</a>	<a href="#">EN</a>
PSSuniversal I/O modules	PSS 4000 Rotational speed monitoring with safe encoder [1003746]	<a href="#">DE</a>	<a href="#">EN</a>
Decentralised periphery	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION [1002460]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION HP [1002541]	<a href="#">DE</a>	<a href="#">EN</a>
SecurityBridge	SecurityBridge Setup [1005680]	<a href="#">DE</a>	<a href="#">EN</a>

## 2.4 Drive technology

Product	Description	DE	EN
PMCprimo	PMC Basic Project with CoDeSys [1001320]	<a href="#">DE</a>	<a href="#">EN</a>
PMCTendo DD	PMC Sensorless operation of asynchronous motors on PMCTendo DD4 [1001321]	<a href="#">DE</a>	<a href="#">EN</a>
PMCprotego D	Safety gate monitoring on PMCprotego DS with PNOZ mm0p and PSENcs (SS2) [1002085]	<a href="#">DE</a>	<a href="#">EN</a>
	Safely limited speed on PMCprotego DS with PNOZ m1p (SLS) [1002086]	<a href="#">DE</a>	<a href="#">EN</a>
	STO classified PL e using PMCprotego D and PNOZ mm0p [1002189]	<a href="#">DE</a>	<a href="#">EN</a>
	STO classified PL e using PMCprotego D.48 or PMCprotego D.72 and PNOZ mm0p [1002398]	<a href="#">DE</a>	<a href="#">EN</a>
	Initial operation PMCprotego D with EtherCAT [1003002]	<a href="#">DE</a>	
PMCprotego Safe Motion	Safety gate monitoring on PMCprotego DS with PNOZ mm0p and PSENcs (SS2) [1002085]	<a href="#">DE</a>	<a href="#">EN</a>
	Safely limited speed on PMCprotego DS with PNOZ m1p (SLS) [1002086]	<a href="#">DE</a>	<a href="#">EN</a>
PMCTendo AC	PMC Sensorless operation of asynchronous motors on PMCTendo DD4 [1001321]	<a href="#">DE</a>	<a href="#">EN</a>

## 2.5 Networks

Product	Description	DE	EN
Modbus TCP	PSS 4000 Modbus TCP configuration [1002065]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Modbus TCP communication with Revolution Pi [1004733]		<a href="#">EN</a>
	PITreader Modbus-Connection with different PLC Systems [1005380]		<a href="#">EN</a>
Serial 232	PSS Serial-to-Ethernet connection [1001962]	<a href="#">DE</a>	<a href="#">EN</a>
Serial ETH	PNOZmulti Serial-to-Ethernet connection [1001958]		<a href="#">EN</a>
	PSSu serial I/O-Communication [1002064]	<a href="#">DE</a>	<a href="#">EN</a>
	PNOZmulti ETH TCP/IP communication with SIMATIC PLCs [1002671]		<a href="#">EN</a>
	PSS 4000 ETH UDP communication with SIMATIC PLCs [1002677]		<a href="#">EN</a>
	PSS 4000 EtherNet/IP communication with Allen-Bradley PLCs [1003034]		<a href="#">EN</a>
CANopen	PSSu CANopen [1001996]		<a href="#">EN</a>
ProfiNet	PSSu 312 040 Profinet with SIMATIC S7 [1001906]		<a href="#">EN</a>
	PSSu 312 043 Profinet with SIMATIC S7 [1001907]	<a href="#">DE</a>	<a href="#">EN</a>
	PSSu H F PN to Siemens 840D sl via PROFINET safety [1003742]	<a href="#">DE</a>	
	PNOZmulti 2 Profinet communication with S7-1500 PLC in TIA Portal V13 [1003896]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS u2 I/O PROFINET with PROFIsafe Profile on a SIMATIC S7-1500 with TIA Portal [1004479]	<a href="#">DE</a>	<a href="#">EN</a>
	PMC blocks for Profibus and Profinet connection with SIMATIC controllers [1005099]	<a href="#">DE</a>	
	PSS u2 IO-Link Master with PROFINET Headmodul on a SIMATIC S7-1500 [1005142]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS u2 I/O PROFINET with PROFIsafe Profile on a SIMATIC S7-1500 with TIA Portal [1005258]	<a href="#">DE</a>	<a href="#">EN</a>
	PDP67 I/O PROFINET with PROFIsafe Profile on a SIMATIC S7-1500 with TIA Portal [1005313]	<a href="#">DE</a>	<a href="#">EN</a>
Profibus	PSSu Profibus DP with SIMATIC S7 [1001754]		<a href="#">EN</a>
	PMC blocks for Profibus and Profinet connection with SIMATIC controllers [1005099]	<a href="#">DE</a>	

Product	Description	DE	EN
DeviceNet	PSSu DeviceNet (AB) with ControlLogix [1001768]		<a href="#">EN</a>
DeviceNet	PSSu DeviceNet with Beckhoff [1001760]		<a href="#">EN</a>
CC-Link	PNOZ m ES CC-Link with Mitsubishi Q-Series [1004308]		<a href="#">EN</a>
EtherNet/IP	PNOZ m ES Ethernet/IP with Allen Bradley ControlLogix [1003899]		<a href="#">EN</a>
	PSS u2 I/O EtherNet/IP with CIP Safety Protocol on a Allen-Bradley ControlLogix with Studio 5000 [1004684]		<a href="#">EN</a>
IO-Link	PSS u2 IO-Link Master with PROFINET Headmodul on a SIMATIC S7-1500 [1005142]	<a href="#">DE</a>	<a href="#">EN</a>

## 2.6 Operator and visualisation systems

Product	Description	DE	EN
Control and signal devices	PSS 4000 Emergency Stop with PITestop Instruction List [1002023]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop PASmulti [1002254]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop Structured Text [1002515]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop Ladder Diagram [1003985]	<a href="#">DE</a>	<a href="#">EN</a>
	Decentralised periphery PNOZmulti: PNOZ ml2p with PDP67 F 8DI ION [1002460]	<a href="#">DE</a>	<a href="#">EN</a>
Operator terminals	PSS 4000 Modbus TCP configuration [1002065]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 OPC Server with PMI 4 [1002674]		<a href="#">EN</a>
	Prepare PMI 5 for PVIS Diagnosis [1003359]	<a href="#">DE</a>	
PASvisu	PNOZmulti project visualisation with PASvisu [1004448]	<a href="#">DE</a>	<a href="#">EN</a>
PITmode	Functionblocks for reading the key ID from PITmode [1004968]		<a href="#">EN</a>
PITreader	PITreader Modbus-Connection with different PLC Systems [1005380]		<a href="#">EN</a>

## 2.7 Software

Product	Description	DE	EN
Fail Safe	PSS 4000 Emergency Stop with PITestop Instruction List [1002023]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) Instruction List [1002024]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Instruction List [1002025]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENSlock Instruction List [1002026]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop PASmulti [1002254]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) PASmulti [1002255]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) PASmulti [1002256]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENSlock PASmulti [1002257]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop Structured Text [1002515]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENmech (me2) Structured Text [1002516]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Structured Text [1002517]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENSlock Structured Text [1002518]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENSgate [1002385]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Emergency Stop with PITestop Ladder Diagram [1003985]	<a href="#">DE</a>	<a href="#">EN</a>
Automation	PAS4000 Software functions/functionblocks for Standard Part [1004309]		<a href="#">EN</a>
	Functionblocks for reading the key ID from PITmode [1004968]		<a href="#">EN</a>
	PMC blocks for Profibus and Profinet connection with SIMATIC controllers [1005099]	<a href="#">DE</a>	



## 2.8 Attachments

Product	Description	DE	EN
Guard lock	PSS 4000 Safety Gate with PSENSlock Instruction List [1002026]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENSlock PASmulti [1002257]	<a href="#">DE</a>	<a href="#">EN</a>
	PSS 4000 Safety Gate with PSENSlock Structured Text [1002518]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENSgate [1002385]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENSgate 2 [1003958]	<a href="#">DE</a>	<a href="#">EN</a>
	Safe Monitoring and guardlock with PSEnmlock [1004124]	<a href="#">DE</a>	<a href="#">EN</a>
Enable switch	Safely limited speed on PMCprotego DS with PNOZ m1p (SLS) [1002086]	<a href="#">DE</a>	<a href="#">EN</a>
Operating mode	Safely limited speed on PMCprotego DS with PNOZ m1p (SLS) [1002086]	<a href="#">DE</a>	<a href="#">EN</a>
	Functionblocks for reading the key ID from PITmode [1004968]		<a href="#">EN</a>
Standstill	Monitoring and guard lock a safety gate using the safety gate system PSENSgate [1002385]	<a href="#">DE</a>	<a href="#">EN</a>
	Monitoring and guard lock a safety gate using the safety gate system PSENSgate 2 and safe operating stop – SOS [1003958]	<a href="#">DE</a>	<a href="#">EN</a>
Application parameters	Variant selection with application parameters [1004532]	<a href="#">DE</a>	

### 3 Application Notes sorted by document number

Document No.	Description	DE	EN
1001320	PMC Basic Project with CoDeSys	<a href="#">DE</a>	<a href="#">EN</a>
1001321	PMC Sensorless operation of asynchronous motors on PMCTendo DD4	<a href="#">DE</a>	<a href="#">EN</a>
1001754	PSSu Profibus DP with SIMATIC S7		<a href="#">EN</a>
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1002256	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) PASmulti	<a href="#">DE</a>	<a href="#">EN</a>
1002257	PSS 4000 Safety Gate with PSENSlock PASmulti	<a href="#">DE</a>	<a href="#">EN</a>
1002385	Monitoring and guard lock a safety gate using the safety gate system PSENsgate	<a href="#">DE</a>	<a href="#">EN</a>
1002398	STO classified PL e using PMCprotego D.48 or PMCprotego D.72 and PNOZ mm0p	<a href="#">DE</a>	<a href="#">EN</a>
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1002516	PSS 4000 Safety Gate with PSENmech (me2) Structured Text	<a href="#">DE</a>	<a href="#">EN</a>
1002517	PSS 4000 Light Curtain with PSENopt (PSEN op4F-s.../1) Structured Text	<a href="#">DE</a>	<a href="#">EN</a>
1002518	PSS 4000 Safety Gate with PSENSlock Structured Text	<a href="#">DE</a>	<a href="#">EN</a>
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1002671	PNOZmulti ETH TCP/IP communication with SIMATIC PLCs		<a href="#">EN</a>
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1003899	PNOZ m ES Ethernet/IP with Allen Bradley ControlLogix		<a href="#">EN</a>
1003958	Monitoring and guard lock a safety gate using the safety gate system PSENsgate 2	<a href="#">DE</a>	<a href="#">EN</a>
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1005380	PITreader Modbus-Connection with different PLC Systems		<a href="#">EN</a>
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1005745	Control of burner safety valves with PSS outputs according to EN 50156		<a href="#">EN</a>
1005752	PSEN me5 Fault Exclusion		<a href="#">EN</a>
1005822	Safe operating mode selection with PSS 4000, PITreader and keypad PIT oe 4S (PSSu PITmode flex)	<a href="#">DE</a>	<a href="#">EN</a>
1005823	Safe operating mode selection with PSS 4000, PITreader and PMI (PSSu PITmode flex visu)	<a href="#">DE</a>	<a href="#">EN</a>

## 4 Other languages

Document No.	Description	IT	JA
1002975	Definition of the protected field of the camera-based protection system PSEnvip		<a href="#">JA</a>
1003165	Fault exclusion on interlocking device with guard locking PSEN me1	<a href="#">IT</a>	

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THE SPIRIT OF SAFETY

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