



► PSEN cs1.1n

PILZ
THE SPIRIT OF SAFETY

Operating Manual-22178-EN-07
- PSEN sensor technology



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SD means Secure Digital

Introduction	5
Validity of documentation	5
Using the documentation	5
Definition of symbols	5
Safety	6
Intended use	6
Safety regulations	7
Safety assessment	7
Use of qualified personnel	7
Warranty and liability	7
Disposal	7
For your safety	8
Unit features	8
Function description	9
Block diagram	9
Operating distances	9
Lateral and vertical offset	10
Wiring	10
Pin assignment, connector and cable	11
Connection to evaluation devices	11
Teaching in the actuator	13
Installation	13
Adjustment	14
Operation	14
Dimensions in mm	15
Technical details safety switch	16
Technical details actuator	18
Classification according to ZVEI, CB24I	19
Safety characteristic data	20
Supplementary data	20
Radio approval	20

Order reference	21
Safety switch	21
Actuator	21
Complete systems	21
Accessories	21
 EC declaration of conformity	 23
 UKCA-Declaration of Conformity	 23

Introduction

Validity of documentation

This documentation is valid for the product PSEN cs1.1n. It is valid until new documentation is published.

This operating manual explains the function and operation, describes the installation and provides guidelines on how to connect the product.

Using the documentation

This document is intended for instruction. Only install and commission the product if you have read and understood this document. The document should be retained for future reference.

Definition of symbols

Information that is particularly important is identified as follows:



DANGER!

This warning must be heeded! It warns of a hazardous situation that poses an immediate threat of serious injury and death and indicates preventive measures that can be taken.



WARNING!

This warning must be heeded! It warns of a hazardous situation that could lead to serious injury and death and indicates preventive measures that can be taken.



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.

Safety

Intended use

The safety functions of the safety switch are:

- ▶ Safe shutdown of safety outputs when the actuator is removed beyond the assured release distance s_{ar} or when the actuator is not detected
- ▶ Remain shut down safely after the actuator has been removed

The safety switch meets the requirements in accordance with:

- ▶ EN IEC 60947-5-3: PDDb with the actuator PSEN cs1.1
- ▶ EN IEC 62061: SIL CL 3
- ▶ EN ISO 13849-1: PL e (Cat. 4)
- ▶ EN ISO 14119: Coding level Low, design 4

The safety switch may only be used with the corresponding actuator PSEN cs1.1.

The safety level PL e (Cat. 4)/SIL CL 3 is achieved only when:

- ▶ the safety outputs use 2-channel processing.

Improper use

The following is deemed improper use in particular:

- ▶ Any component, technical or electrical modification to the product,
- ▶ Use of the product outside the areas described in this operating manual,
- ▶ Use of the product outside the technical details (see chapter entitled [Technical Details](#) [16]).

**NOTICE****EMC-compliant electrical installation**

The product is designed for use in an industrial environment. The product may cause interference if installed in other environments. If installed in other environments, measures should be taken to comply with the applicable standards and directives for the respective installation site with regard to interference.

Safety regulations

Safety assessment

Before using a unit, a risk assessment is required in accordance with the Machinery Regulation.

Connecting additional units may result in further risks. Take the necessary measures to protect against corruption.

The product as an individual component fulfils the functional safety requirements in accordance with EN ISO 13849 and EN IEC 62061. However, this does not guarantee the functional safety of the overall plant/machine. To achieve the relevant safety level of the overall plant/machine's required safety functions, each safety function needs to be considered separately.

Use of qualified personnel

The products may only be assembled, installed, programmed, commissioned, operated, decommissioned and maintained by persons who are competent to do so.

A competent person is a qualified and knowledgeable person who, because of their training, experience and current professional activity, has the specialist knowledge required. In order to inspect, assess and handle products, devices, systems, plant and machinery, this person must be familiar with the state of the art and the applicable national, European and international laws, directives and standards.

It is the company's responsibility only to employ personnel who

- ▶ Are familiar with the basic regulations concerning health and safety / accident prevention,
- ▶ Have read and understood the information provided in the section entitled Safety
- ▶ Have a good knowledge of the generic and specialist standards applicable to the specific application.

Warranty and liability

All claims to warranty and liability will be rendered invalid if

- ▶ The product was used contrary to the purpose for which it is intended,
- ▶ Damage can be attributed to not having followed the guidelines in the manual,
- ▶ Operating personnel are not suitably qualified,
- ▶ Any type of modification has been made (e.g. exchanging components on the PCB boards, soldering work etc.).

Disposal

- ▶ In safety-related applications, please comply with the mission time T_M stated in the safety-related characteristic data.
- ▶ When decommissioning, please comply with local regulations regarding the disposal of electronic devices (e.g. Electrical and Electronic Equipment Act).

For your safety**WARNING!****Loss of safety function due to manipulation of the interlocking device**

Manipulation of the interlocking device may lead to serious injury and death.

- You should prevent any possibility of the interlocking device being manipulated through the use of a spare actuator.
- Keep the substitute actuator in a safe place and protect it from unauthorised access.
- If substitute actuators are used, these must be installed as described under [Installation](#)  13].
- If the original actuators are replaced with substitute actuators, the original actuators must be destroyed before disposal.

- ▶ Do not remove the connector's protective cap until you are just about to connect the product. This will prevent potential contamination.

Unit features

- ▶ Transponder technology for presence detection
- ▶ Pilz coding type: coded
- ▶ Dual-channel operation
- ▶ 2 safety outputs
- ▶ LED display for:
 - State of the actuator
 - Supply voltage/fault
- ▶ 4 directions of actuation

Function description

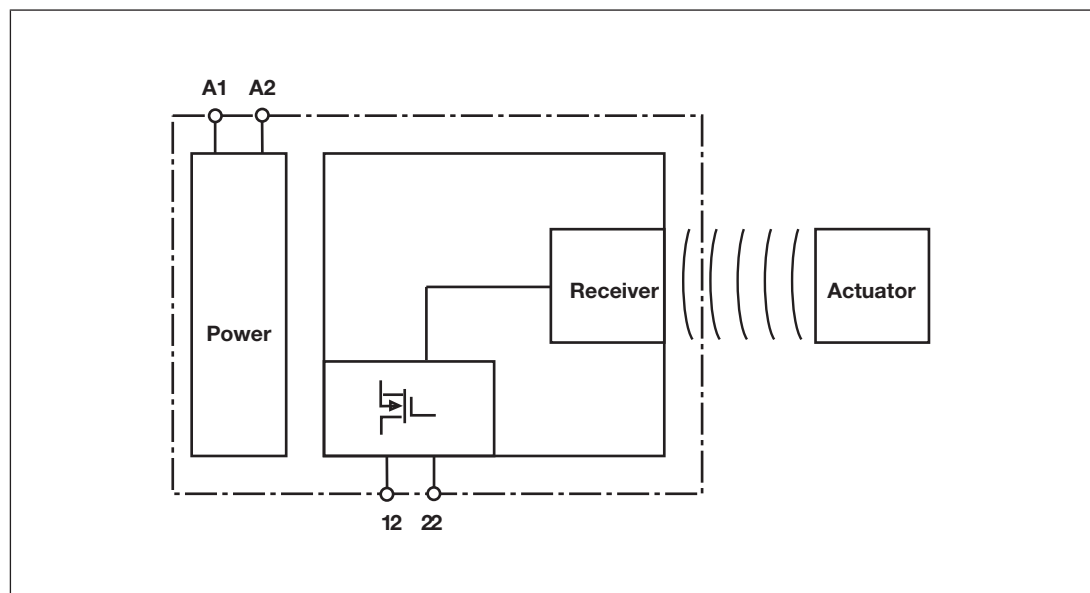
The safety outputs may have a high or low signal, depending on the position of the actuator.

In a safe condition the safety outputs are in the OFF state.

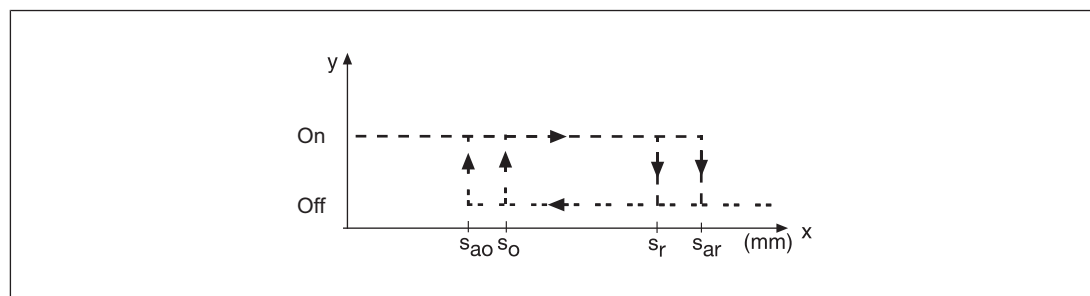
State of the outputs:

Actuator in the response range	Safety output 12	Safety output 22
Yes	High	High
No	Low	Low

Block diagram



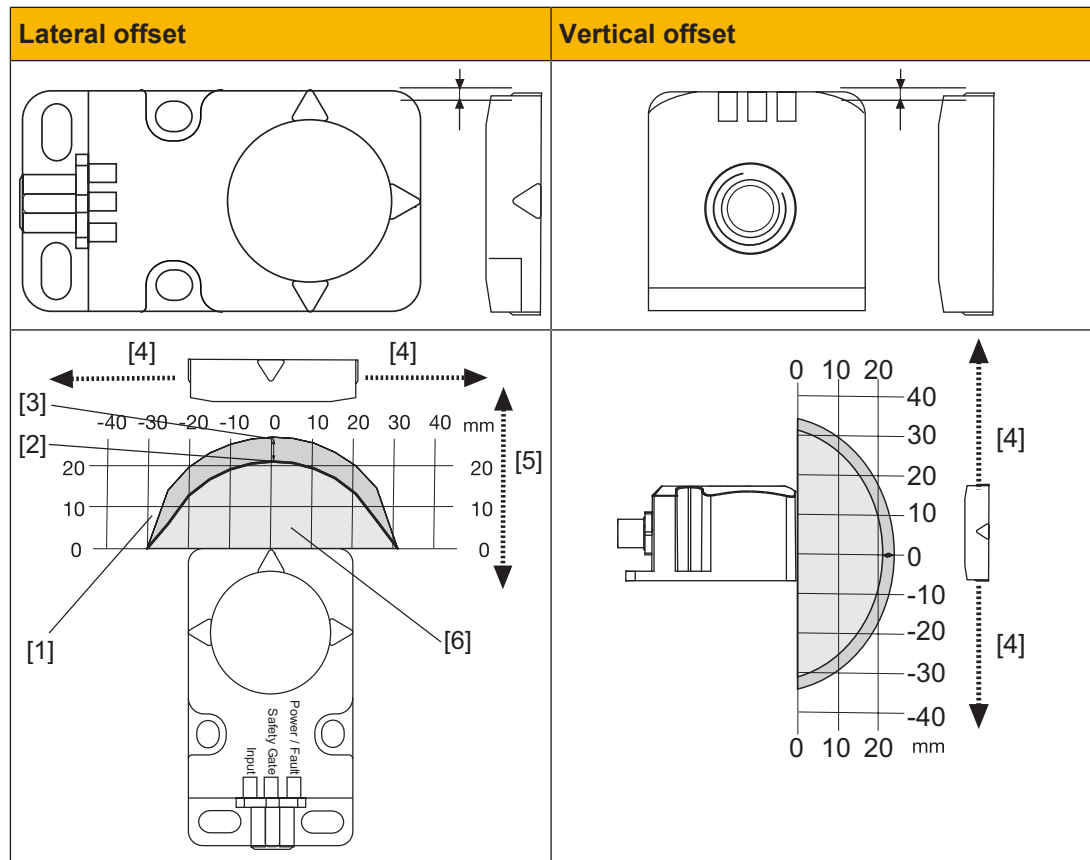
Operating distances



Legend:

- ▶ s_{ao} Assured operating distance: 15 mm
- ▶ s_o Typical operating distance: 21 mm
- ▶ s_r Typical release distance: 32 mm
- ▶ s_{ar} Assured release distance: 40 mm

Lateral and vertical offset



Legend

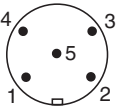
- [1] Hysteresis
- [2] Typical operating distance S_o
- [3] Typical release distance S_r
- [4] Offset in mm
- [5] Operating distance in mm
- [6] Response range

Wiring

Please note:

- ▶ Information given in the "Technical details" must be followed.
- ▶ Switch off the supply voltage before disconnecting the plug-in connection.
- ▶ Make sure that when connecting or separating the connector the pollution degree 1 or 2 is maintained.
- ▶ The supply voltage to the safety switch must be protected with a 2 A to 4 A quick-acting fuse.
- ▶ Ensure the wiring and EMC requirements of EN 60204-1 are met.
- ▶ The power supply must meet the regulations for extra low voltages with protective electrical separation (SELV, PELV).
- ▶ The power supply must have an overvoltage protection of ≤ 35 V DC.

Pin assignment, connector and cable

		5-pin M12 male connector	
PIN	Pin designation	Function	Wire colour
1	A1	+24 UB	Brown
2	12	Output, channel1	White
3	A2	0 V UB	Blue
4	22	Output, channel2	Black
5	-	Do not connect	Grey

The wire colour also applies for the cable available from Pilz as an accessory.

Connection to evaluation devices

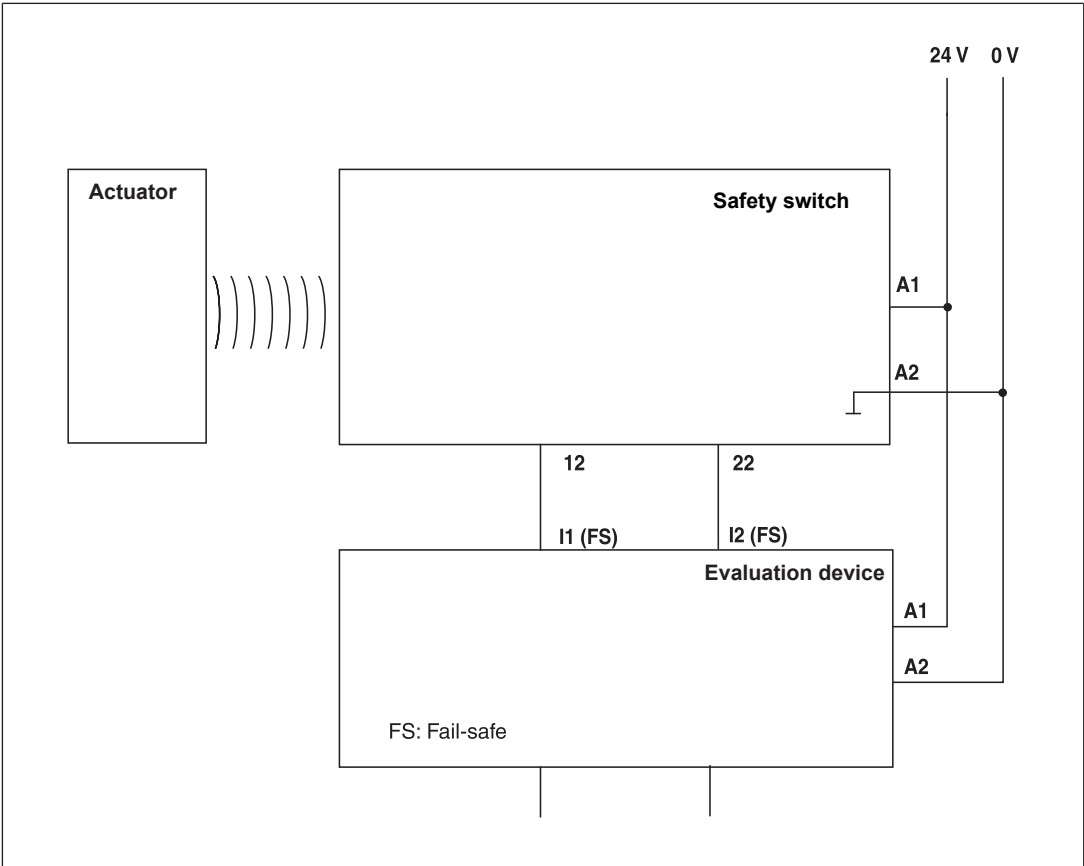
Make sure that the selected evaluation device has the following property:

- OSSD signals are evaluated through 2 channels with plausibility monitoring

Note:

- Information given in the [Technical details \[16\]](#) must be followed.

Connection diagram, single connection



Suitable Pilz evaluation devices are, for example:

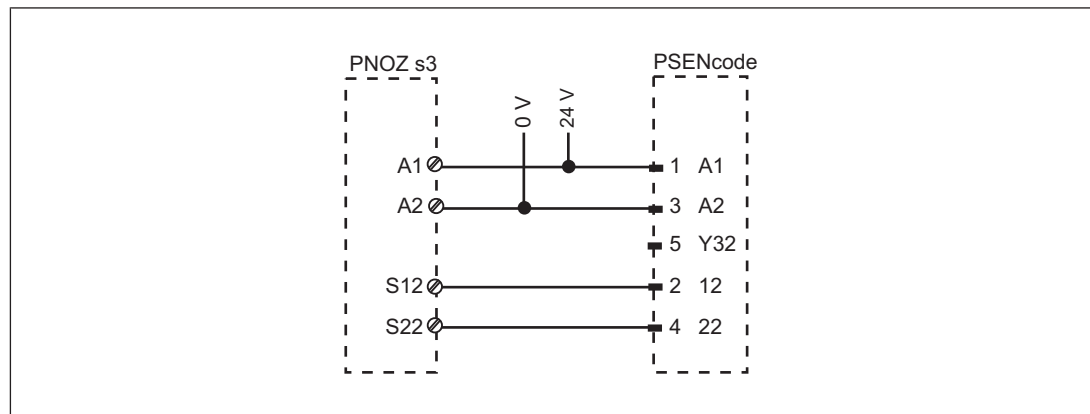
- ▶ PNOZelog for safety gate monitoring
- ▶ PNOZpower for safety gate monitoring
- ▶ PNOZsigma for safety gate monitoring
- ▶ PNOZ X for safety gate monitoring
- ▶ PNOZmulti for safety gate monitoring
Configure the switch in the PNOZmulti Configurator with switch type 3.
- ▶ PSS for safety gate monitoring with standard function block SB064, SB066 or FS_Safety Gate
- ▶ PSSuniversal PLC for safety gate monitoring with function block FS_SafetyGate

The correct connection to the respective evaluation device is described in the operating manual for the evaluation device. Make sure that the connection is made in accordance with the specifications in the operating manual for the selected evaluation device.

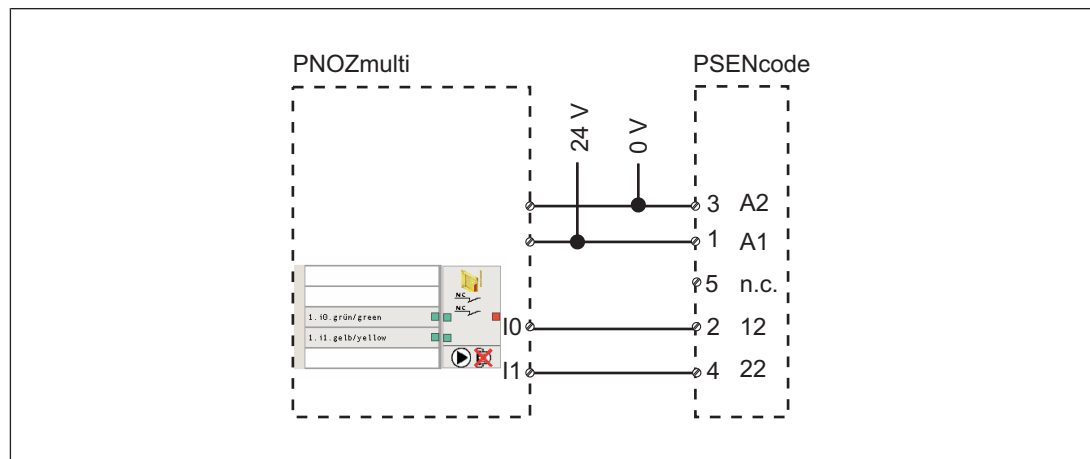
The connections to two evaluation devices are shown on the following pages, by way of example:

- ▶ PNOZ s3 and
- ▶ PNOZmulti

PNOZ s3



PNOZmulti



Teaching in the actuator

Any approved Pilz actuator (see [Intended use](#)  6]) is detected as soon as it is brought into the response range.

Installation



CAUTION!

Potential loss of safety function due to changed device properties

The unit's properties may be affected if installed in an environment containing electrically or magnetically conductive material.

- Please check the operating distances and the assured release distance.

- ▶ The safety switch and actuator should be installed opposite each other in parallel.
 - Make sure that the actuator is aligned to the marking on the sensor that guarantees the operating distance required by the plant design (see [Operating distances](#)  9)).
- ▶ Safety switches and actuators should be permanently secured using M5 safety screws with a flat head (e.g. M5 cheese-head or pan head screws).
- ▶ Protect the actuator from contamination.
- ▶ Torque setting: Please note the information provided under [Technical details](#)  16].
- ▶ The distance between two safety switches must be maintained (see [Technical details](#)  16]).
- ▶ Make sure that the safety switch and actuator cannot be used as an end stop.
- ▶ Please note the installation measures in accordance with EN ISO 14119 for a safety switch design 4 and with level of coding Low.
- ▶ For simpler installation, the mounting brackets (see [Order reference for Accessories](#)  21]) can be used.
- ▶ If using angled connector plugs, note the defined angle of the cable routing.



CAUTION!

Possible loss of the safety function by changing the release distance S_{ar} with non-flush installation

Installing the safety switch non-flush within electrically or magnetically conductive material, the value for the assured release distance S_{ar} can change.

- Check the assured release distance S_{ar} .

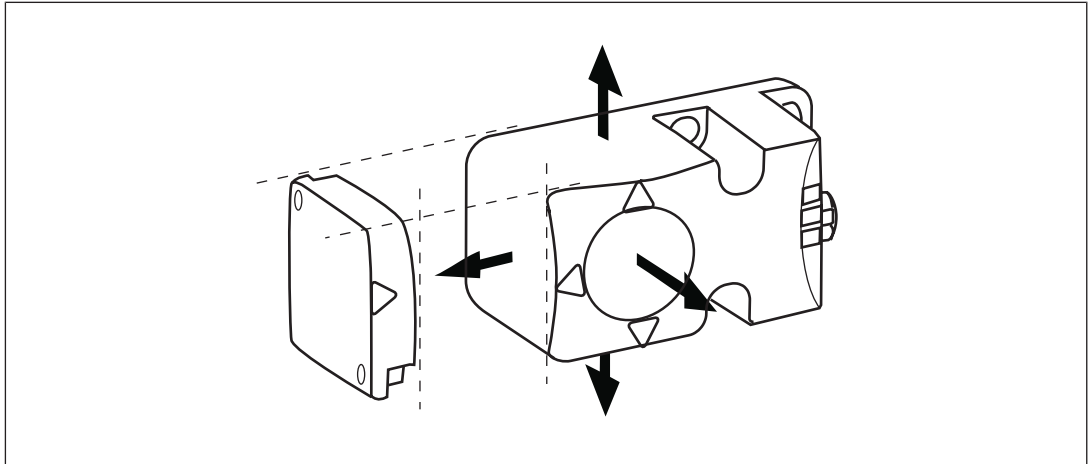
Procedure:

Fig.: Sensing faces on the sensor

1. Drill holes (for M5 screws) in the mounting surface to secure the actuator and sensor (see [Dimensions in mm \[15\]](#)).
2. Use a screw to fix the sensor to the mounting surface.
Make sure that the sensor marking that is be used for operation can be operated using the actuator from the right side.
3. Do not fully tighten the second screw on the safety switch.
4. Use a screw to fix the actuator to the mounting surface.
Make sure that the actuator with the printed side points towards the marking on the sensor.
5. Do not fully tighten the second screw on the actuator.
6. Align the safety switch and tighten the screws.
7. Align the actuator and tighten the screws.

Adjustment

- ▶ The stated operating distances (see [Technical details \[16\]](#)) only apply when the safety switch and actuator are installed facing each other in parallel. Operating distances may deviate if other arrangements are used.
- ▶ Note the maximum permitted lateral and vertical offset (see [Operating distances \[9\]](#) and [Lateral and vertical offset \[10\]](#)).

Operation**NOTICE**

The safety functions should be checked after initial commissioning and each time the plant/machine is changed. The safety functions may only be checked by qualified personnel.

Check the function of the safety switch before commissioning.

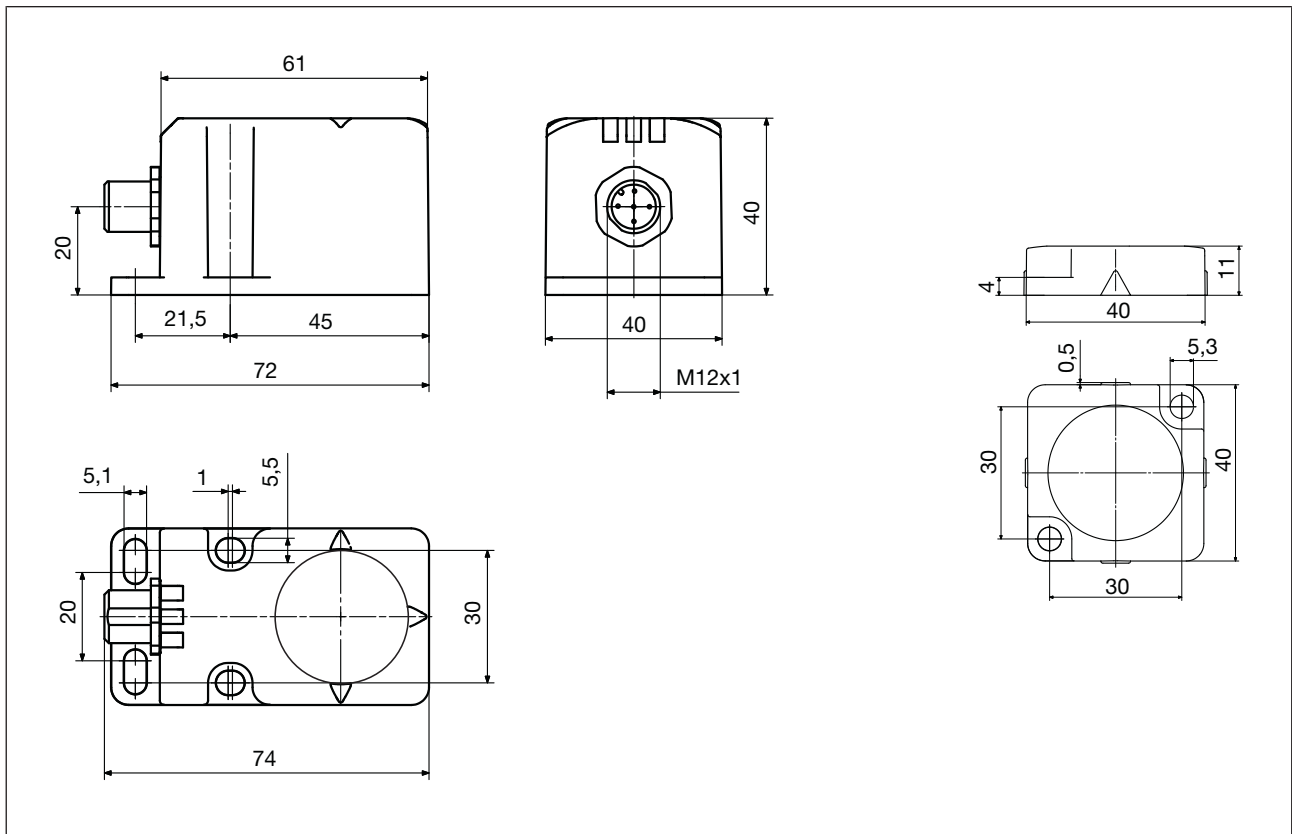
Status indicators:

- ▶ "POWER/Fault" LED lights up green: The unit is ready for operation
- ▶ "Safety Gate" LED lights up yellow: Actuator is within the response range

Fault indicator:

- ▶ "POWER/Fault" LED lights up red: Error message.
- Remedy: Rectify fault and interrupt power supply.

Dimensions in mm



Technical details safety switch

Where standards are undated, the 2025-09 valid editions apply.

General	
Certifications	CE, EAC, FCC, IC, TÜV, UKCA, cULus Listed
Sensor's mode of operation	Transponders
Coding level in accordance with EN ISO 14119	Low
Design in accordance with EN ISO 14119	4
Classification in accordance with EN 60947-5-3	PDDb
Pilz coding type	coded
Transponders	
Frequency band	122 kHz - 128 kHz
Max. transmitter output	15 mW
Electrical data	
Supply voltage	
Voltage	24 V
Kind	DC
Voltage tolerance	-20 %/+20 %
Output of external power supply (DC)	2 W
Max. inrush current at UB	0,12 A
Max. switching frequency	3 Hz
Max. cable capacitance at the safety outputs	
No-load, PNOZ with relay contacts	40 nF
PNOZmulti, PNOZelog, PSS	70 nF
No-load current	50 mA
Semiconductor outputs	
OSSD safety outputs	2
Switching current per output	500 mA
Breaking capacity per output	12 W
Potential isolation from system voltage	No
Short circuit-proof	Yes
Residual current at outputs	10 µA
Voltage drop at OSSDs	3,5 V
Lowest operating current	0 mA
Utilisation category in accordance with EN 60947-1	DC-12
Times	
Max. test pulse duration, safety outputs	450 µs
Switch-on delay	
after UB is applied	1 s
Actuator typ.	80 ms
Actuator max.	150 ms
Delay-on de-energisation	
Actuator typ.	40 ms
Actuator max.	260 ms

Times	
Risk time in accordance with EN 60947-5-3	260 ms
Supply interruption before de-energisation	20 ms
Simultaneity, channel 1 and 2 max.	∞
Environmental data	
Ambient temperature	
in accordance with the standard	EN 60068-2-14
Temperature range	-25 - 70 °C
Storage temperature	
in accordance with the standard	EN 60068-2-1/-2
Climatic suitability	
in accordance with the standard	EN 60068-2-78
Humidity	93 % r. h. at 40 °C
EMC	EN 60947-5-3
Vibration	
in accordance with the standard	EN 60947-5-2
Frequency	10 - 55 Hz
Amplitude	1 mm
Shock stress	
in accordance with the standard	EN 60947-5-2
Acceleration	30g
Duration	11 ms
Airgap creepage	
Overvoltage category	III
Pollution degree	3
Rated insulation voltage	75 V
Rated impulse withstand voltage	0,8 kV
Protection type	
Housing	IP67
Operating distances	
Assured operating distance S_{ao}	15 mm
Typical operating distance S_o	21 mm
Assured release distance S_{ar}	40 mm
Typical release distance S_r	32 mm
Repetition accuracy switching distances	10 %
Change of operating distance with temperature changes	+0,01mm/°C
Typ. hysteresis	3 mm
Mechanical data	
Actuator 1	PSEN cs1.1
Min. distance between safety switches	400 mm
Sensor flush installation in accordance with EN 60947-5-2	yes, follow installation guidelines
Connection type	M12, 5-pin male connector

Mechanical data

Material	
Top	PBT
Max. fixing screws torque settings	1 Nm
Dimensions	
Height	75 mm
Width	40 mm
Depth	40 mm
Weight of safety switch	130 g
Weight	130 g

Technical details actuator**General**

Certifications	CE, EAC, TÜV, UKCA, cULus Listed
Sensor's mode of operation	Transponders
Coding level in accordance with EN ISO 14119	Low
Pilz coding type	coded

Transponders

Frequency band	122 kHz - 128 kHz
----------------	--------------------------

Environmental data

Ambient temperature	
in accordance with the standard	EN 60068-2-14
Temperature range	-25 - 70 °C
Storage temperature	
in accordance with the standard	EN 60068-2-1/-2
Temperature range	-40 - 85 °C
Climatic suitability	
in accordance with the standard	EN 60068-2-78
Humidity	93 % r. h. at 40 °C
EMC	EN 60947-5-3
Vibration	
in accordance with the standard	EN 60947-5-2
Frequency	10 - 55 Hz
Amplitude	1 mm
Shock stress	
in accordance with the standard	EN 60947-5-2
Acceleration	30g
Duration	11 ms
Protection type	
Housing	IP6K9K

Mechanical data

Material	
Top	PBT
Max. fixing screws torque settings	1 Nm

Mechanical data

Dimensions

Height	11 mm
--------	-------

Width	40 mm
-------	-------

Depth	40 mm
-------	-------

Weight	20 g
--------	------

Classification according to ZVEI, CB24I

The following tables describe the classes and specific values of the product interface and the classes of interfaces compatible with it. The classification is described in the ZVEI position paper "Classification of Binary 24 V Interfaces - Functional Safety aspects covered by dynamic testing".

Single-pole output**Interfaces**

Source

Interface	Sensor
Class	C2

Drain

Interface	Evaluation device
Class	C1, C2

Source parameters

Max. test pulse duration	450 µs
--------------------------	--------

Max. rated current	0,5 A
--------------------	-------

Max. capacitive load	40 nF
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Safety characteristic data



NOTICE

You must comply with the safety characteristic data in order to achieve the required safety level for your plant/machine.

Operating mode	EN ISO 13849-1: 2023	EN ISO 13849-1: 2023	EN IEC 62061 SIL CL/max.	EN IEC 62061 61508	EN/IEC 61511 61508	EN/IEC 61511 61508	EN ISO 13849-1: 2023
	PL	Category	SIL	PFH [1/h]	SIL	PFD	T _M [year]
2-ch. OSSD	PL e	Cat. 4	SIL CL 3	4,10E-09	–	1,10E-04	20

Explanatory notes for the safety-related characteristic data:

- T_M is the maximum mission time in accordance with EN ISO 13849-1. The value also applies as the retest interval in accordance with EN IEC 61508-6 and EN IEC 61511 and as the proof test interval and mission time in accordance with EN IEC 62061.

All the units used within a safety function must be considered when calculating the safety characteristic data.



INFORMATION

A safety function's SIL/PL values are **not** identical to the SIL/PL values of the products used and may differ from these.

Supplementary data

Radio approval

USA/Canada



FCC ID: VT8-PSENCs1
IC: 7482A-PSENCs1

FCC/IC-Requirements:

This product complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standards.

Operation is subject to the following two conditions:

- 1) this product may not cause harmful interference, and
- 2) this product must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this product not expressly approved by Pilz may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Le présent produit est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) le produit ne doit pas produire de brouillage, et
- (2) l'utilisateur de le produit doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Order reference

Safety switch

Product type	Features	Connection type	Order no.
PSEN cs1.1n (switch)	Safety switch, coded	5-pin M12 male connector	540053

Actuator

Product type	Features	Connection type	Order no.
PSEN cs1.1	Actuator, coded		540080

Complete systems

Product type	Features	Connection type	Order no.
PSEN cs1.1n/PSEN cs1.1	Safety gate system, coded	5-pin M12 male connector	540003

Accessories

Installation material

Product type	Features	Order no.
PSEN bracket	Mounting bracket	532110
PSEN mag/cs bracket straight	Mounting aid	532111
PSEN screw M4x20 10pcs	Safety screws made from stainless steel with one-way slot	540313
PSEN screw M4x26 10pcs	Safety screws made from stainless steel with one-way slot	540314
PSEN screw M5x10 10pcs	Safety screws made from stainless steel with one-way slot	540311
PSEN screw M5x20 10pcs	Safety screws made from stainless steel with one-way slot	540312
PSEN cs1/2 bracket cable fix	Mechanical protection against defeat, protecting against unauthorised cable disconnection or damage for safety switches PSENcode cs1/2, PSENcode cs5/6 M12, PSENslock	532112

Cable

Product type	Connection 1	Connection 2	Length	Order No.
PSS67/PDP67 cable M12-5sf	straight, M12, 5-pin, socket	straight, M12, 5-pin, connector	3 m	380208
			5 m	380209
			10 m	380210
			20 m	380220
			30 m	380211

Product type	Connection 1	Connection 2	Length	Order No.
PSS67/PDP67 cable M12-5af	Angled, M12, 5-pin, socket	Angled, M12, 5-pin, connector	3 m	380212
			5 m	380213
			10 m	380214
			30 m	380215
PSEN cable M12-5sf	straight, M12, 5-pin, socket	Open cable	3 m	630310
			5 m	630311
			10 m	630312
			20 m	630298
			30 m	630297
PSEN cable M12-5af	Angled, M12, 5-pin, socket	Open cable	3 m	630347
			5 m	630348
			10 m	630349
			30 m	630350
PDP67 F 8DI ION	Decentralised input module IP67 for PNOZmulti			773600

EC declaration of conformity

This product/these products meet(s) the requirements of the following directives of the European Parliament and of the Council.

- ▶ 2006/42/EC on machines
- ▶ 2014/53/EU on radio equipment

The complete EC Declaration of Conformity is available on the Internet at www.pilz.com/downloads.

Representative: Pilz GmbH & Co. KG, Felix-Wankel-Str. 2, 73760 Ostfildern, Germany

UKCA-Declaration of Conformity

This product(s) complies with following UK legislation:

- ▶ Supply of Machinery (Safety) Regulations 2008
- ▶ Radio Equipment Regulations 2017

The complete UKCA Declaration of Conformity is available on the Internet at www.pilz.com/downloads.

Representative: Pilz Automation Technology, Pilz House, Little Colliers Field, Corby, Northamptonshire, NN18 8TJ United Kingdom, eMail: mail@pilz.co.uk

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

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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

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