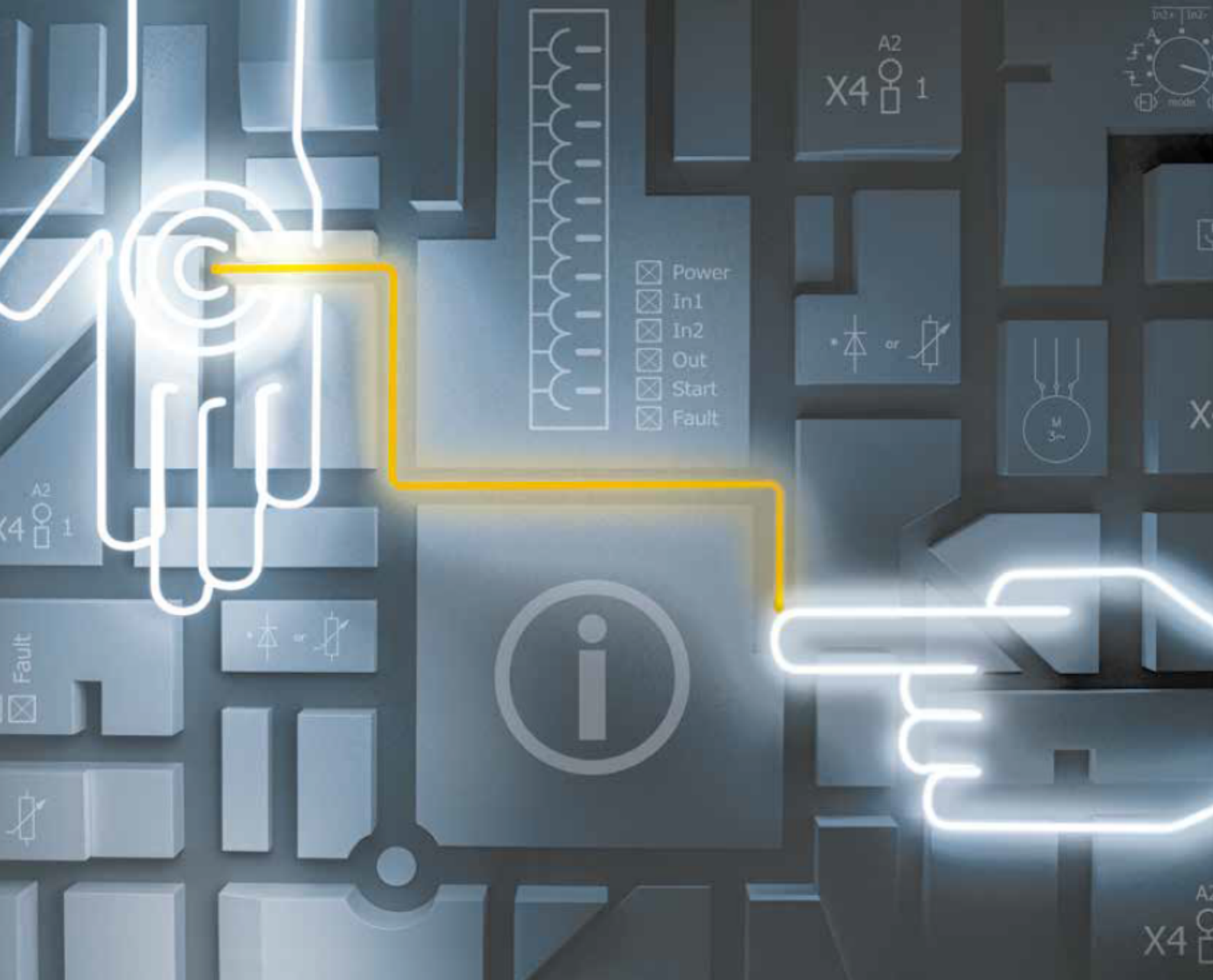




► PSEN ma1.3a/b-22

PILZ
THE SPIRIT OF SAFETY

Operating Manual-21737-EN-14
- PSEN sensor technology



This document is the original document.

Where unavoidable, for reasons of readability, the masculine form has been selected when formulating this document. We do assure you that all persons are regarded without discrimination and on an equal basis.

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SD means Secure Digital

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Introduction

Validity of documentation

This documentation is valid for the product PSEN ma1.3a/b-22. 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 function of the safety switch is:

- ▶ The safety contacts open when the actuator is removed beyond the assured release distance s_{ar} or when the actuator is not detected.

The safety switch meets the requirements in accordance with:

- ▶ EN 60947-5-3: PDDDB only in connection
 - with the operator PSEN ma1.3-08 or operator PSEN ma1.3-12
 - the interface PSEN ix1 and
 - the suitable evaluation devices (see [Requirements and connection to evaluation devices](#) [ 12]).

The safety switch is designed for applications in series connections and it must only be operated with the following components:

- ▶ Actuator PSEN ma1.3-08 or actuator PSEN ma1.3-12 ,
- ▶ interface PSEN ix1 (see [Order reference](#) [ 24]) and
- ▶ an approved evaluation device.

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](#) [ 19]).

**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 device, a safety assessment in accordance with the Machinery Directive is required.

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](#)  15].
- If the original actuators are replaced with substitute actuators, the original actuators must be destroyed before disposal.

Unit features

- ▶ The actuator PSEN ma1.3-08 or PSEN ma1.3-12 belongs to the safety switch.
- ▶ Coded actuator
- ▶ Safety switch with cable (5 m/ 10 m)
- ▶ 2 safety contacts (reed contacts - N/O)
- ▶ 1 auxiliary contact (N/O)
- ▶ Different operating distances depending on the actuator see [Technical details](#)  19]
- ▶ Design:
 - Safety switch with round design
 - Actuator with round design: PSEN ma1.3-08
 - Actuator with square design: PSEN ma1.3-12 (various directions of actuation possible)
- ▶ Operation Magnetic
- ▶ Switching voltage 24 VDC
- ▶ Series connection via PSEN ix1 interface
- ▶ LED to display switch status

Function description

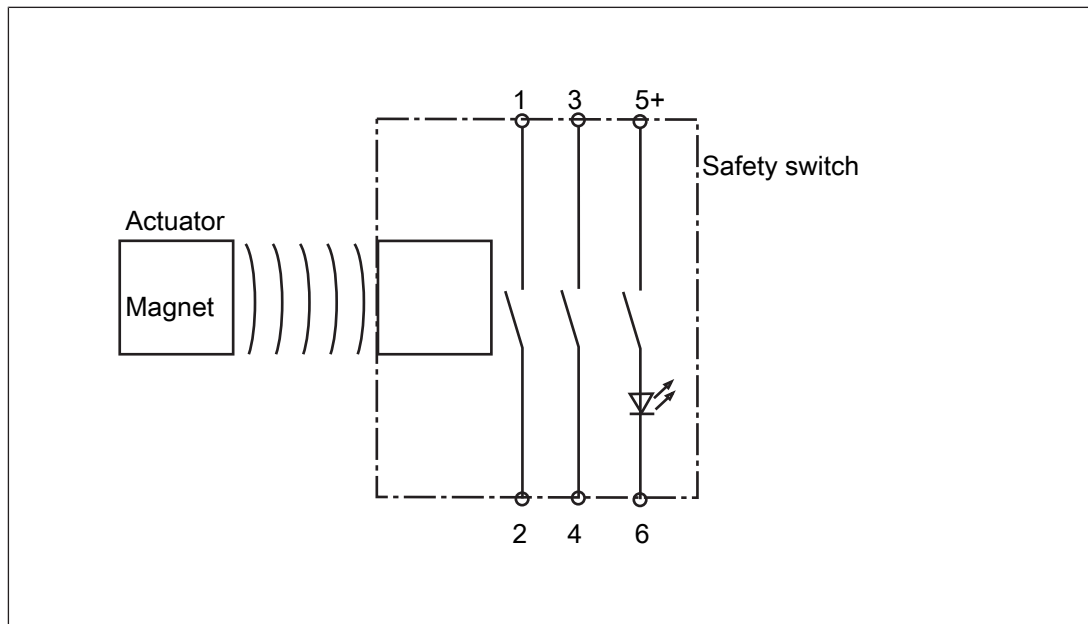
If the actuator is within the response range (safety gate closed), the safety contacts and the auxiliary contact on the safety switch will be closed and the LED will light.

The safety switch is designed for applications in series connections.

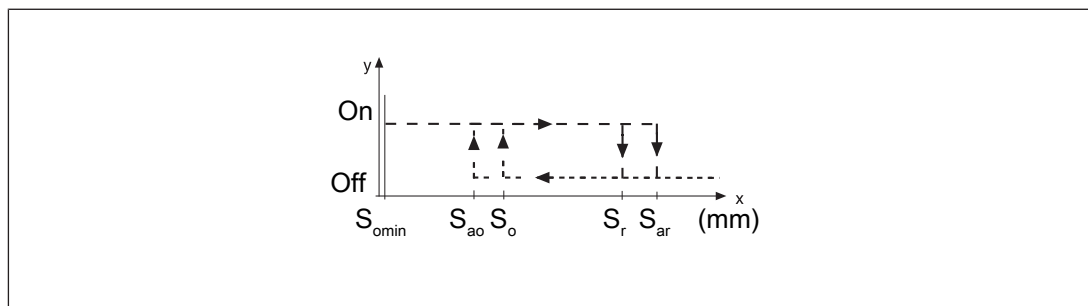
Operate the PSEN ma1.3a/b-22 in conjunction with the following components:

- ▶ Actuator PSEN ma1.3-08 or actuator PSEN ma1.3-12 (see [Order reference](#)  24]),
- ▶ interface PSEN ix1 (see [Order reference](#)  24]) and
- ▶ a connected evaluation device (see [Requirements and connection to evaluation devices](#)  12]).

Block diagram



Operating distances



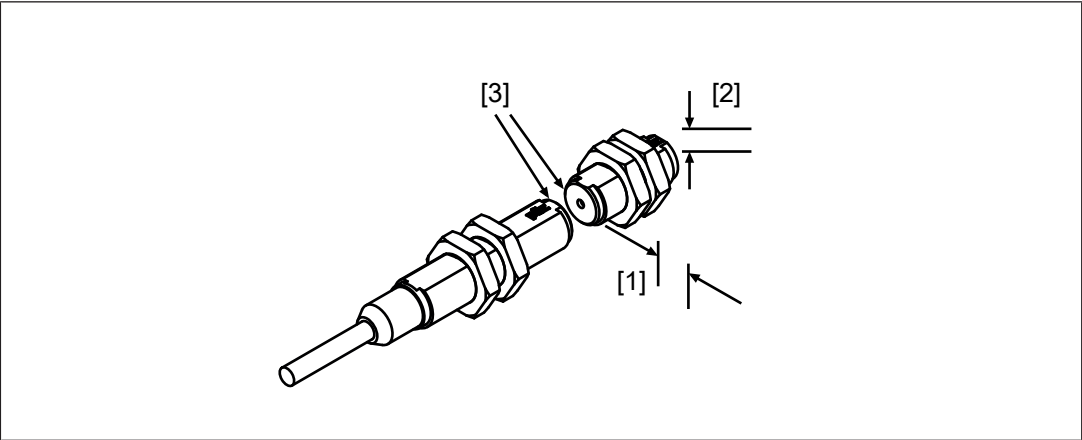
Legend

- S_{ao} Assured operating distance
- S_{omin} Min. operating distance
- S_{ar} Assured release distance

The offset-independent values for the switching distances are included in the [Technical details \[19\]](#).

Lateral and vertical offset

Actuator PSEN ma1.3-08



Legend

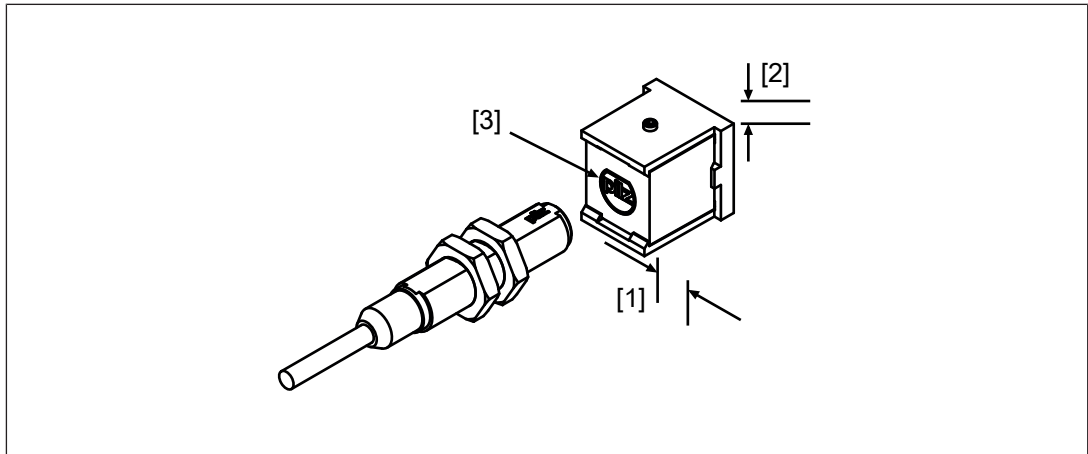
- [1] Lateral offset
- [2] Vertical offset
- [3] Sensing faces

Assured operating distance S_{ao} in mm

Lateral offset	Vertical offset		
	0	2	4
0	8.0	7.0	5.5
2	7.0	6.0	4.0
4	6.0	5.0	3.0

The stated values are valid at a temperature of 20 °C.

Actuator PSEN ma1.3-12



Legend

- [1] Lateral offset
- [2] Vertical offset
- [3] Sensing face

Assured operating distance S_{ao} in mm

Lateral offset	Vertical offset		
	0	1	2
0	12.0	10.0	8.0
2	12.0	10.0	8.0
4	11.0	9.5	7.5

The stated values are valid at a temperature of 20 °C.

Negative vertical offset, not permitted

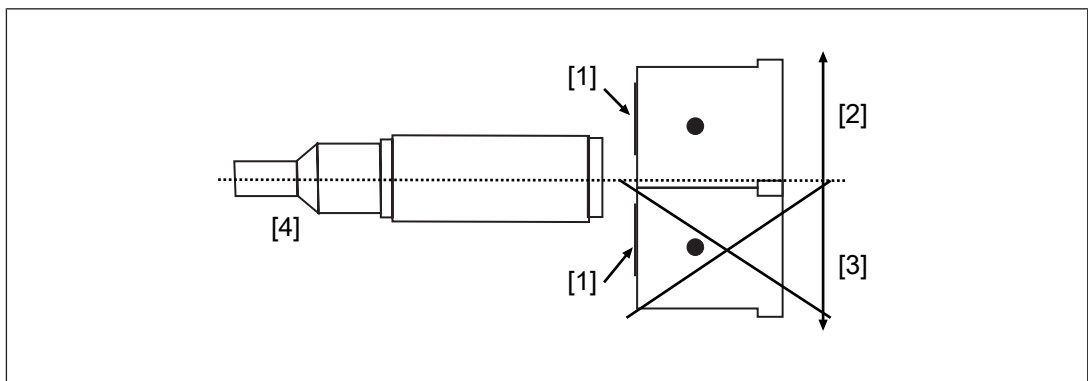


Fig.: Safety switch and square actuator - side view

Legend

- [1] Sensing face PSEN ma1.3-12
- [2] Positive vertical offset, permitted
- [3] Negative vertical offset, not permitted

[4] Safety switch

Wiring

- ▶ Information given in the [Technical details](#)  19] must be followed.
- ▶ Calculation of the max. cable length $l_{\max}$:

$$l_{\max} = \frac{R_{l_{\max}} - R_i}{R_l / \text{km}}$$

$R_{l_{\max}}$ = Max. overall cable resistance (see evaluation device's technical details)

R_i = Internal resistance sensor (see [Technical details](#)  19])

R_l / km = Cable resistance/km of the cable (see technical details cable)

- ▶ Ensure the wiring and EMC requirements of EN 60204-1 are met.
- ▶ In the following cases, check the function that detects shorts across contacts prior to commissioning:
 - On evaluation devices with DC supply voltage: Overall cable resistance ≥ 15 Ohms per channel
 - On evaluation devices with AC supply voltage: Overall cable resistance ≥ 25 Ohms per channel
 - For details of how to perform the test for shorts across the contacts, please refer to the operating manual for the relevant evaluation device.

Pin assignment**NOTICE**

The colour marking for the connection lead only applies for the cable that Pilz supplies as an accessory.

The safety switch is shown in an unoperated condition.

Layout of the 6-core cable	1 Brown 2 White 3 Blue 4 Black 5+ Red 6 Green 
----------------------------	---

**NOTICE**

The auxiliary contact

- may only be operated with a supply voltage of up to 24 VDC
- can be connected in series
- may **not** be used for safety circuits

Requirements and connection to evaluation devices

For use of PSEN ma1.3a/b-22 in accordance with DIN EN 60947-5-3 an evaluation device must be connected.

Connect the PSEN ma1.3a/b-22

- ▶ **either** with a certified Pilz evaluation device
- ▶ **or** with an evaluation device with defined properties

Certified Pilz evaluation devices are, for example:

- ▶ PNOZelog for safety gate monitoring
 - PNOZ e1p, PNOZ e1.1p, PNOZ e1vp
 - PNOZ e5.11p
 - PNOZ e6vp, PNOZ e6.1p
- ▶ PNOZpower for safety gate monitoring
 - PNOZ p1p, PNOZ p1vp
- ▶ PNOZsigma for safety gate monitoring
 - PNOZ s3
 - PNOZ s4
 - PNOZ s5
- ▶ PNOZ X for safety gate monitoring
 - PNOZ X2, PNOZ X2.5P, PNOZ X2.7P, PNOZ X2.8P, PNOZ X2.9P, PNOZ X2C
 - PNOZ X3, PNOZ X3.1, PNOZ X3P, PNOZ X3.10P
 - PNOZ X4
 - PNOZ X5, PNOZ X5J
 - PNOZ Ex
- ▶ 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.

Defined properties of evaluation devices:

- ▶ 2-channel with feasibility monitoring
- ▶ Open circuit monitoring of the safety switch is performed
- ▶ Inputs and outputs on the evaluation device must fulfil the requirements of IEC 61131, Type 3

- Technical data of the evaluation device must fulfil the requirements in the [Technical details \[19\]](#) of PSEN ma1.3a/b-22
 - Always comply with the max. switching current safety contacts of PSEN ma1.3a/b-22.
- Outputs at the evaluation device must only be switched on again when both reed contacts at the safety switch have been opened and closed (partial operation lock)



INFORMATION

Risk time in accordance with DIN EN 60947-5-3

The risk time is made up of the reaction time of the sensor (see [Technical details \[19\]](#)) and the processing and delay times of the evaluation device (s. operating manual for the relevant evaluation device).

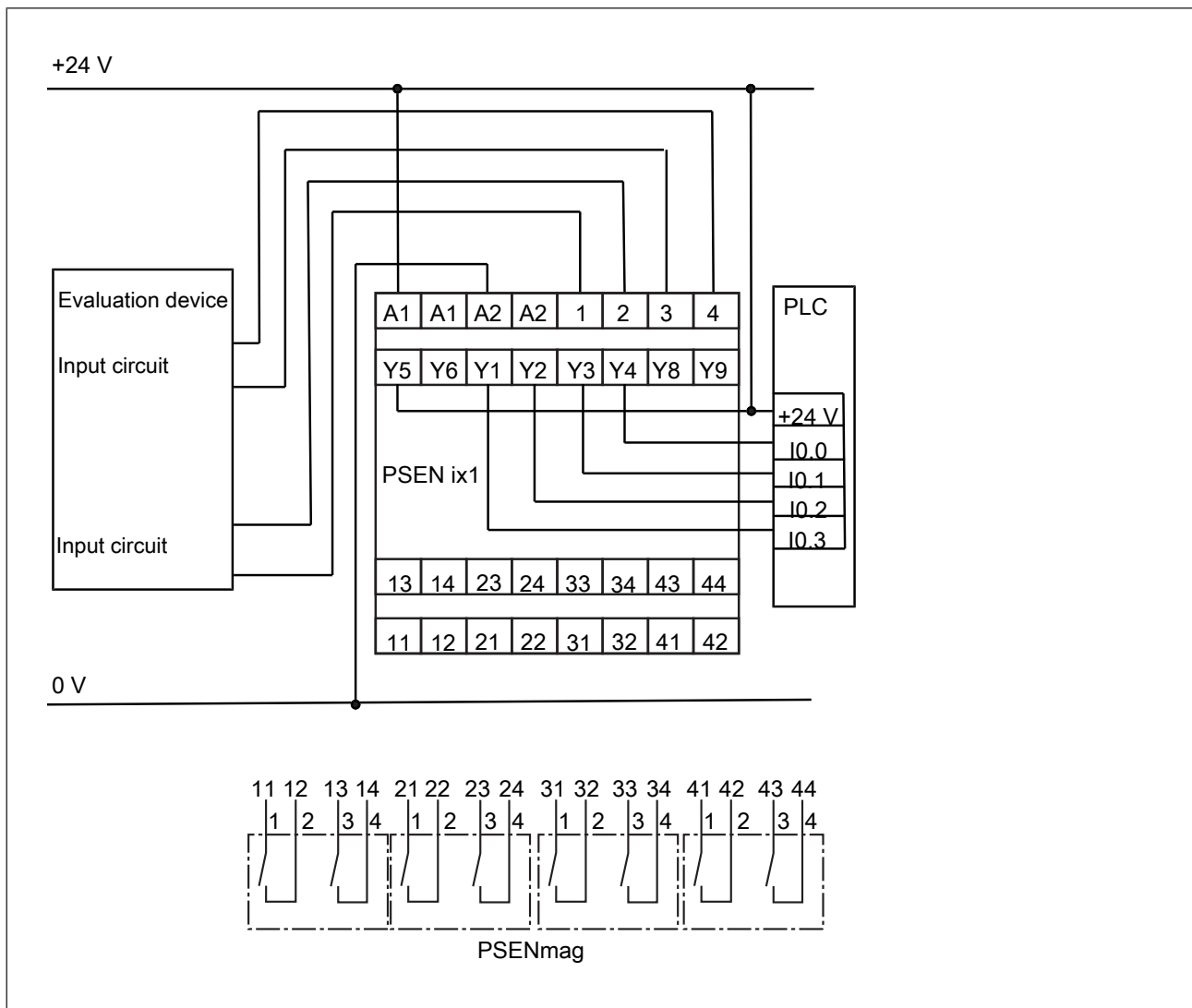
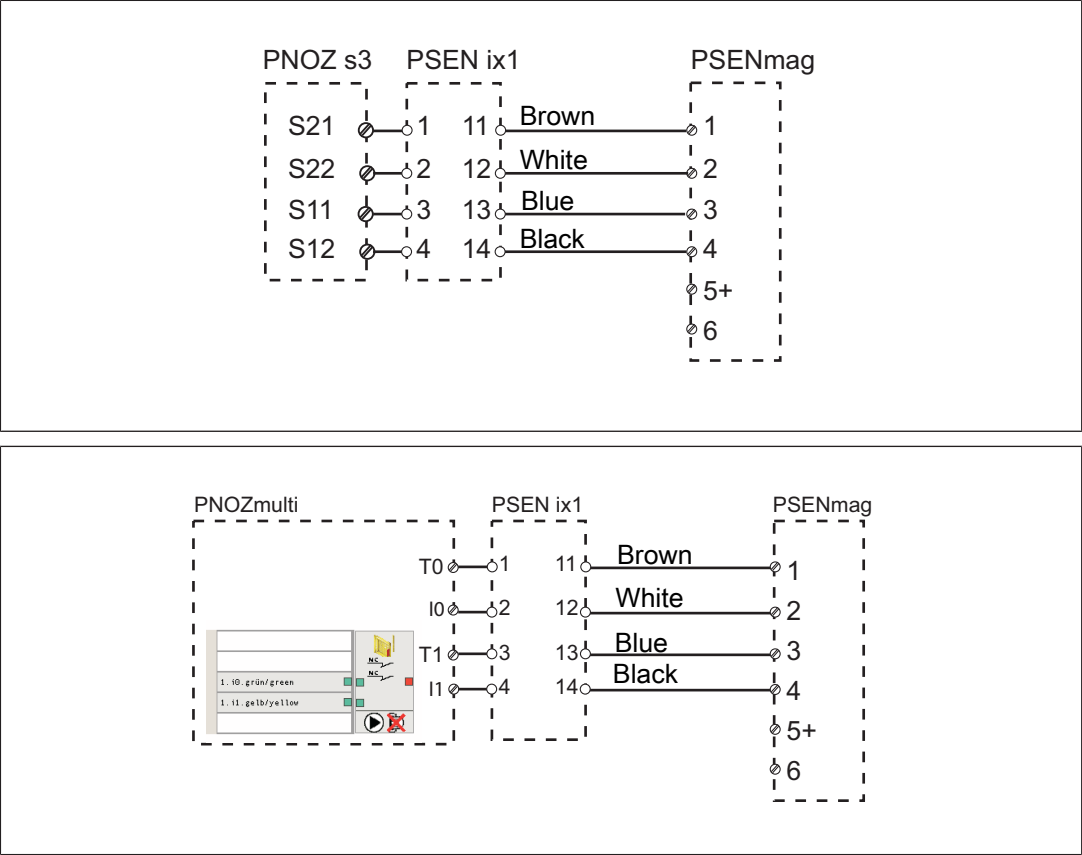


Fig.: Dual-channel connection of four PSENmag to the input circuits of an evaluation device

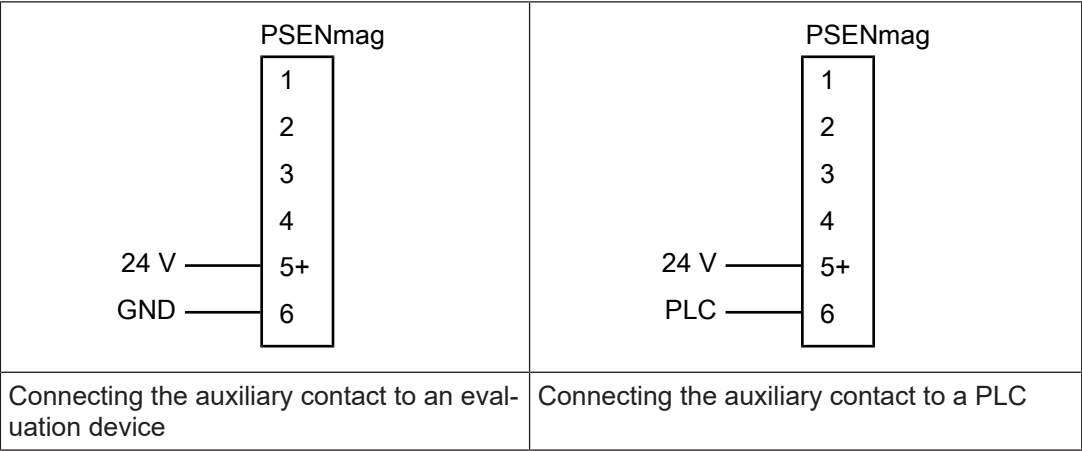
Examples for connection to Pilz evaluation devices:



Auxiliary contact with LED

The auxiliary contact and the LED indicate the status of the safety contacts.

Actuator in the response range	Safety contacts and auxiliary contact	LED
Yes	Closed	 lights
No	Open	 Off



Installation

- ▶ The unit can be installed in any position. Safety switches and actuators must be installed so that the bevelled surface on the safety switch and the bevelled surface of the actuator face each other precisely.



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.



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} .

- ▶ Safety switches and actuators must be positioned so that they are secured against a change of position.
- ▶ Attach the safety switches and actuators only with the supplied nuts.
- ▶ Avoid the risk of damages from foreseeable external influences by attaching the safety switch and actuator. If necessary, safety switch and actuator have to be protected.



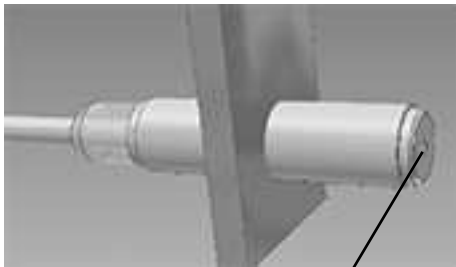
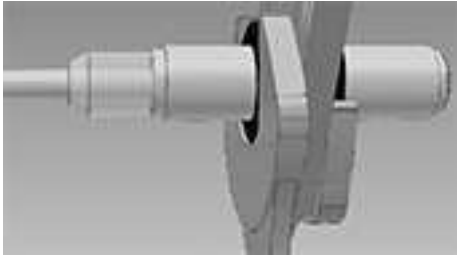
INFORMATION

Protect the actuator from unauthorised removal (e.g. via a screw lock or concealed installation) and from contamination.

- ▶ Prevent self-loosening of the fastening elements of safety switch and actuator.
- ▶ The fastening of safety switch and actuator has to be sufficiently stable to ensure the proper operation of the safety switch and the actuator.
- ▶ The distance between two safety switches must be maintained (see [Technical details \[19\]](#)).
- ▶ Safety switches and actuators
 - Should be kept away from iron swarf
 - Should not be exposed to strong magnetic fields
- ▶ Prevent the safety switch and actuator being exposed to heavy shock or vibration.
- ▶ Make sure that the safety switch and actuator cannot be used as an end stop.
- ▶ Circumvention of the safety switch in a reasonably foreseeable manner must be prevented.

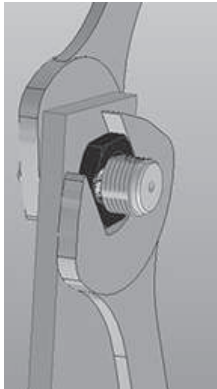
- ▶ Please note the installation measures in accordance with EN ISO 14119 for a proximity switch type 4 with coding level Low.
- ▶ Alignment errors of the guard must not adversely affect the safety function of the guard.
- ▶ The assured operating distance S_{ao} and the assured release distance S_{ar} must be tested under real conditions.
- ▶ Do not apply any installation tools (e.g. Pliers) on the surfaces of the switch.
- ▶ If possible, do not install the safety switch and actuator on to ferromagnetic material. Changes to the operating distances are to be expected.
- ▶ Protect the safety switch and actuator from UV light or direct sunlight.

Installation of safety switch

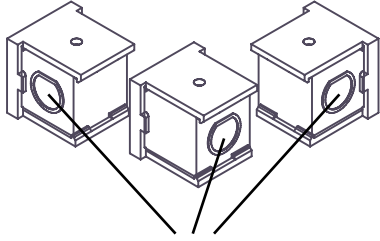
 Sensing face	Slide the switch through the hole in the mounting surface with the sensing face towards the actuator.
	Attach the switch using 2 M12 hexagonal nuts with special threads. Note the max. torque setting (see Technical details [19]).

Installation with actuator PSEN ma1.3-08

 Sensing face	Slide the actuator through the hole in the mounting surface with the sensing face towards the safety switch.
---	---

	Attach the actuator using 2 M12 hexagonal nuts with special threads. Note the max. torque setting (see Technical details [19]).
---	---

Installation with actuator PSEN ma1.3-12

	Attach the bracket using countersunk screws (M4).
 Sensing face	The sensing face at the actuator is marked by a circle with a bevelled surface in the shape of the safety switch. The sensing face can be aligned in 3 directions depending on the direction of actuation. Slide the actuator on to the bracket in the required direction of actuation until the actuator clicks into place.
	The actuator should be secured using a set screw M3 x 6 mm DIN 319 (supplied with the device). Also note the low max. torque setting (see Technical details [19]).

Adjustment

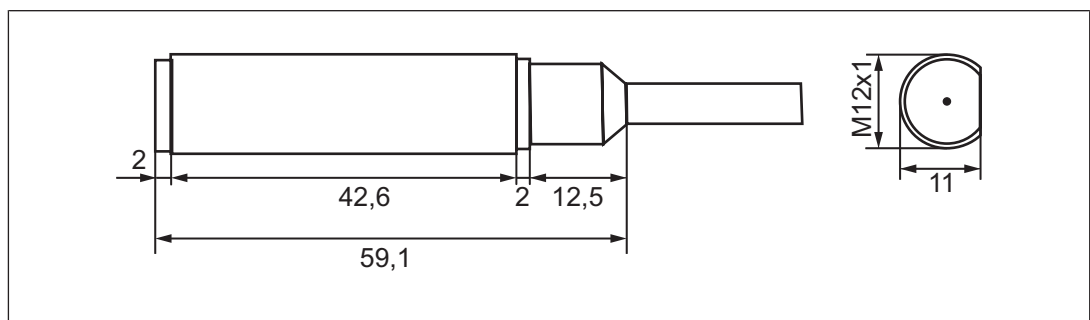
- ▶ The safety switch may only be used with the corresponding actuator PSEN ma1.3-08 or PSEN ma1.3-12.
- ▶ Always test the function with the PSEN ix1 interface and connected evaluation device.
- ▶ The stated operating distances (see [Technical details](#) [19]) only apply when the safety switch and actuator are installed according to the specifications in [Installation](#) [15]. Operating distances may deviate if other arrangements are used. Note the maximum permitted lateral and vertical offset (see [Operating distances and Lateral and vertical offset](#) [8]).

Periodic test

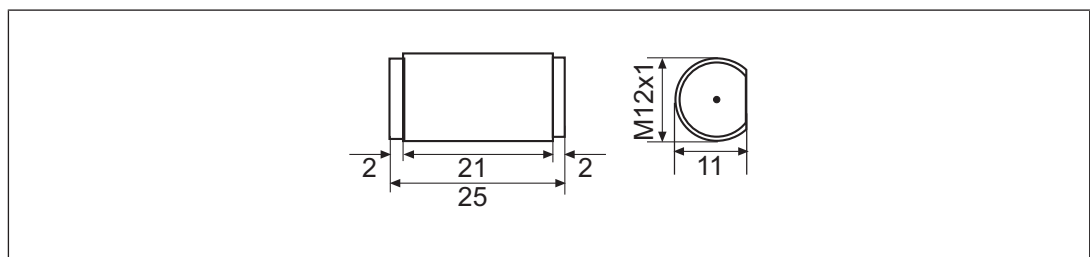
- ▶ Carry out a monthly function test on the safety switch and actuator.
- ▶ Always test the function with the PSEN ix1 interface and connected evaluation device.
- ▶ The safety function may only be checked by qualified personnel.

Dimensions in mm

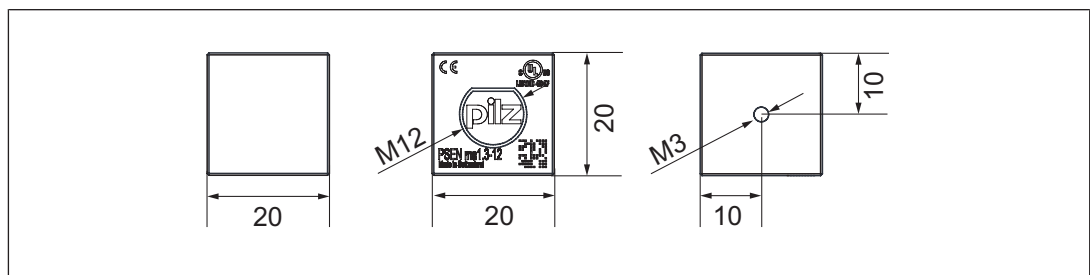
Safety switch



Actuator PSEN ma1.3-08



Actuator PSEN ma1.3-12



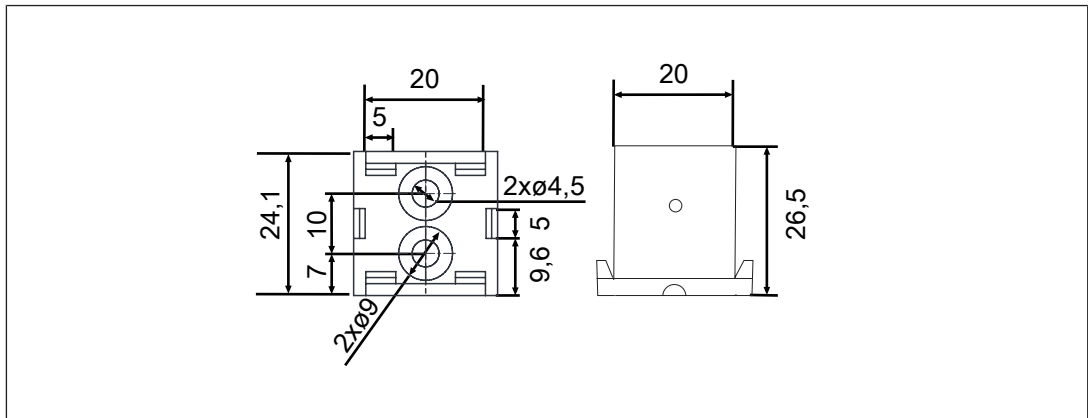


Fig.: Actuator holder

Technical details order no. 506221, 506231

Where standards are undated, the 2023-12 valid editions apply.

General	506221	506231
Certifications	CE, EAC, ECOLAB, TÜV, UKCA, cULus Listed	CE, EAC, ECOLAB, TÜV, UKCA, UL/cUL, cULus Listed
Sensor's mode of operation	Magnetic	Magnetic
Coding level in accordance with EN ISO 14119	Low	Low
Design in accordance with EN ISO 14119	4	4
Classification in accordance with EN 60947-5-3	PDDb	PDDb
Electrical data	506221	506231
Supply voltage		
Voltage	24 V	24 V
Kind	DC	DC
Voltage tolerance	-20 %/+20 %	-20 %/+20 %
Supply voltage		
Max. current	150 mA	150 mA
Max. switching frequency	1 Hz	1 Hz
Lowest operating current (I _m)	1 mA	1 mA
Switching voltage	24 V	24 V
Internal resistance	0 Ohm	0 Ohm
Max. switching current, safety contacts	0,2 A	0,2 A
Max. breaking capacity, safety contacts	5 W	5 W
Max. switching current, auxiliary contacts	10 mA	10 mA
Times	506221	506231
Reaction time (actuator removed)	2 ms	2 ms

Environmental data	506221	506231
Ambient temperature		
Temperature range	-25 - 70 °C	-25 - 70 °C
Climatic suitability		
in accordance with the standard	IEC 60068-2-30	IEC 60068-2-30
Humidity	93 % r. h. at 40 °C	93 % r. h. at 40 °C
Max. operating height above SL	2000 m	2000 m
EMC	EN 60947-5-3	EN 60947-5-3
Vibration		
in accordance with the standard	EN 60947-5-2	EN 60947-5-2
Frequency	10 - 55 Hz	10 - 55 Hz
Amplitude	1 mm	1 mm
Shock stress		
Acceleration	30g	30g
Duration	11 ms	11 ms
Airgap creepage		
Pollution degree	3	3
Rated insulation voltage	250 V	250 V
Rated impulse withstand voltage	4 kV	4 kV
Protection type		
Housing	IP65	IP65
Operating distances	506221	506231
Assured operating distance Sao	8 mm	12 mm
Min. operating distance Somin	0,5 mm	0,5 mm
Typical operating distance So	10 mm	14 mm
Assured release distance Sar	15 mm	25 mm
Typical release distance Sr	12 mm	16 mm
Repetition accuracy switching distances	5 %	5 %
Mechanical data	506221	506231
Actuator 1	PSEN ma1.3-08	PSEN ma1.3-12
Typ. hysteresis	2 mm	2,5 mm
Min. distance between safety switches	25 mm	35 mm
Sensor flush installation in accordance with EN 60947-5-2	yes, follow installation guidelines	yes, follow installation guidelines
Connection type	5 m cable	5 m cable
Cable	LiY11Y 6 x 0.25 mm²	LiY11Y 6 x 0.25 mm²
Material		
Top	PBT	PBT
Max. torque setting		
Safety switch	3 Nm	3 Nm
Actuator 1	3 Nm	0,1 Nm

Mechanical data	506221	506231
Dimensions		
Height	11 mm	11 mm
Width	12 mm	12 mm
Depth	59,1 mm	59,1 mm
Actuator dimensions		
Height	11 mm	20 mm
Width	12 mm	20 mm
Depth	25 mm	20 mm
Weight of safety switch	185 g	185 g
Weight of actuator	11 g	26 g
Weight	196 g	211 g

Technical details order no. 506223, 506233

Where standards are undated, the 2023-12 valid editions apply.

General	506223	506233
Certifications	CE, EAC, ECOLAB, TÜV, UKCA, cULus Listed	CE, EAC, ECOLAB, TÜV, UKCA, UL/cUL, cULus Listed
Sensor's mode of operation	Magnetic	Magnetic
Coding level in accordance with EN ISO 14119	Low	Low
Design in accordance with EN ISO 14119	4	4
Classification in accordance with EN 60947-5-3	PDDb	PDDb
Electrical data	506223	506233
Supply voltage		
Voltage	24 V	24 V
Kind	DC	DC
Voltage tolerance	-20 %/+20 %	-20 %/+20 %
Supply voltage		
Max. current	150 mA	150 mA
Max. switching frequency	1 Hz	1 Hz
Lowest operating current (I _m)	1 mA	1 mA
Switching voltage	24 V	24 V
Internal resistance	0 Ohm	0 Ohm
Max. switching current, safety contacts	0,2 A	0,2 A
Max. breaking capacity, safety contacts	5 W	5 W
Max. switching current, auxiliary contacts	10 mA	10 mA
Times	506223	506233
Reaction time (actuator removed)	2 ms	2 ms

Environmental data	506223	506233
Ambient temperature		
Temperature range	-25 - 70 °C	-25 - 70 °C
Climatic suitability		
in accordance with the standard	IEC 60068-2-30	IEC 60068-2-30
Humidity	93 % r. h. at 40 °C	93 % r. h. at 40 °C
Max. operating height above SL	2000 m	2000 m
EMC	EN 60947-5-3	EN 60947-5-3
Vibration		
in accordance with the standard	EN 60947-5-2	EN 60947-5-2
Frequency	10 - 55 Hz	10 - 55 Hz
Amplitude	1 mm	1 mm
Shock stress		
Acceleration	30g	30g
Duration	11 ms	11 ms
Airgap creepage		
Pollution degree	3	3
Rated insulation voltage	250 V	250 V
Rated impulse withstand voltage	4 kV	4 kV
Protection type		
Housing	IP65	IP65
Operating distances	506223	506233
Assured operating distance Sao	8 mm	12 mm
Min. operating distance Somin	0,5 mm	0,5 mm
Typical operating distance So	10 mm	14 mm
Assured release distance Sar	15 mm	25 mm
Typical release distance Sr	12 mm	16 mm
Repetition accuracy switching distances	5 %	5 %
Mechanical data	506223	506233
Actuator 1	PSEN ma1.3-08	PSEN ma1.3-12
Typ. hysteresis	2 mm	2,5 mm
Min. distance between safety switches	25 mm	35 mm
Sensor flush installation in accordance with EN 60947-5-2	yes, follow installation guidelines	yes, follow installation guidelines
Connection type	10 m cable	10 m cable
Cable	LiY11Y 6 x 0.25 mm²	LiY11Y 6 x 0.25 mm²
Material		
Top	PBT	PBT
Max. torque setting		
Safety switch	3 Nm	3 Nm
Actuator 1	3 Nm	0,1 Nm

Mechanical data	506223	506233
Dimensions		
Height	11 mm	11 mm
Width	12 mm	12 mm
Depth	59,2 mm	59,1 mm
Actuator dimensions		
Height	11 mm	20 mm
Width	12 mm	20 mm
Depth	25 mm	20 mm
Weight of safety switch	360 g	360 g
Weight of actuator	11 g	26 g
Weight	371 g	386 g

Safety characteristic data

Operating mode	B10d in accordance with EN ISO 13849-1:2023 and EN 62061	TM [year] in accordance with EN ISO 13849-1:2023
Sensor, 2-ch, $\leq 5\text{mA}$	50.000.000	20
Sensor, 2-ch, $5\text{mA} < I \leq 60\text{mA}$	8.500.000	20
Sensor, 2-ch, $> 60\text{mA}$	4.000.000	20



NOTICE

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

Order reference

System

Product type	Features	Connection type	Order no.
PSEN ma1.3a-22/ PSEN ma1.3-08/8mm/ 1unit	Magnetic safety switch, actuator with assured operating distance 8 mm	Cable, 5 m	506221
PSEN ma1.3a-22/ PSEN ma1.3-12/12mm/ ix1/1u	Magnetic safety switch, actuator with assured operating distance 12 mm	Cable, 5 m	506231
PSEN ma1.3b-22/ PSEN ma1.3-08/8mm/ 1unit	Magnetic safety switch, actuator with assured operating distance 8 mm	Cable, 10 m	506223
PSEN ma1.3b-22/ PSEN ma1.3-12/12mm/ ix1/1u	Magnetic safety switch, actuator with assured operating distance 12 mm	Cable, 10 m	506233
PSEN ma1.3a-22/1switch	Magnetic safety switch	Cable, 5 m	526121
PSEN ma1.3b-22/1switch	Magnetic safety switch	Cable, 10 m	526123
PSEN ma1.3-08/1actuator	Actuator with assured operating distance 8 mm		516120
PSEN ma1.3-12/1actuator	Actuator with assured operating distance 12 mm		516130

Accessories

Product type	Features		Order no.
PSEN ix1 Interface for 4 PSEN 1	Interface PSEN ix1 for connecting and evaluating several safety switches PSEN ma		535120

EC declaration of conformity

This product/these products meet the requirements of the directive 2006/42/EC on machinery of the European Parliament and of the Council. 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) Regulation 2008.

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

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