



▶ PNOZ X7P

PILZ
THE SPIRIT OF SAFETY

Operating Manual-21027-EN-10
- Safety relays



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SD means Secure Digital

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Introduction

Validity of documentation

This documentation is valid for the product PNOZ X7P. 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 relay PNOZ X7P provides a safety-related interruption of a safety circuit.

The safety relay meets the requirements of EN 60947-5-1 and EN 60204-1 and may be used in applications with:

- ▶ E-STOP pushbuttons
- ▶ Safety gates

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](#) [ 15]).

**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, de-commissioned 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

The unit meets all the necessary conditions for safe operation. However, please note the following:

- ▶ Note for overvoltage category III: If voltages higher than low voltage (>50 VAC or >120 VDC) are present on the unit, connected control elements and sensors must have a rated insulation voltage of at least 250 V.

Unit features

- ▶ Positive-guided relay outputs:
 - 2 safety contacts (N/O), instantaneous
- ▶ Connection options for:
 - E-STOP pushbutton
 - Safety gate limit switch
 - Start button
- ▶ LED display for:
 - Supply voltage
 - Switch status of the safety contacts
- ▶ Plug-in connection terminals
- ▶ See order reference for unit types

Safety features

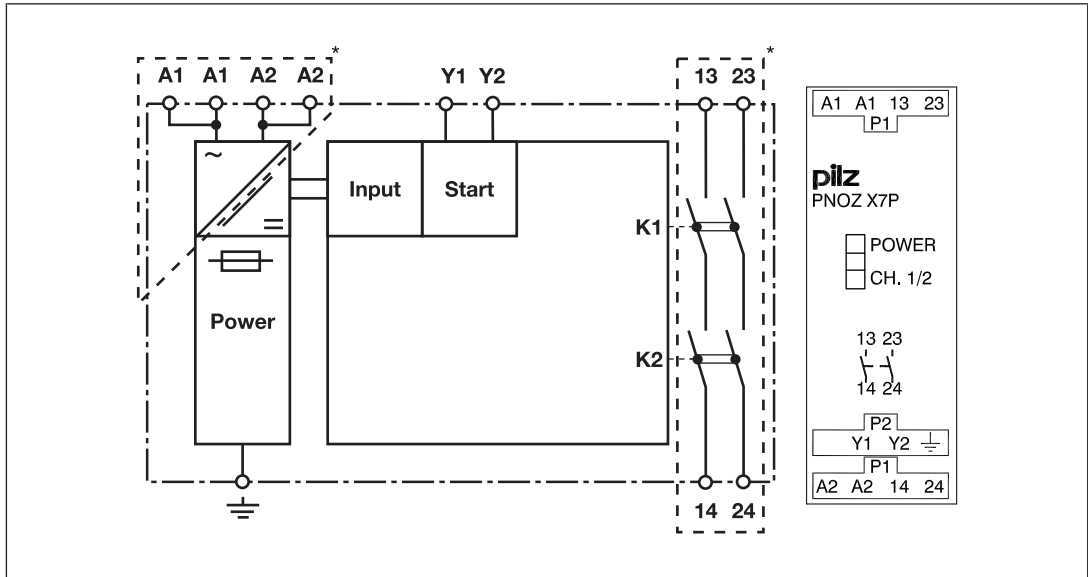
The safety relay meets the following safety requirements:

- ▶ The circuit is internally redundant with built-in self-monitoring.
- ▶ The safety device remains effective in the case of a component failure.
- ▶ The correct opening and closing of the safety device relays is tested automatically in each on-off cycle.

Block diagram/terminal configuration

Types: AC

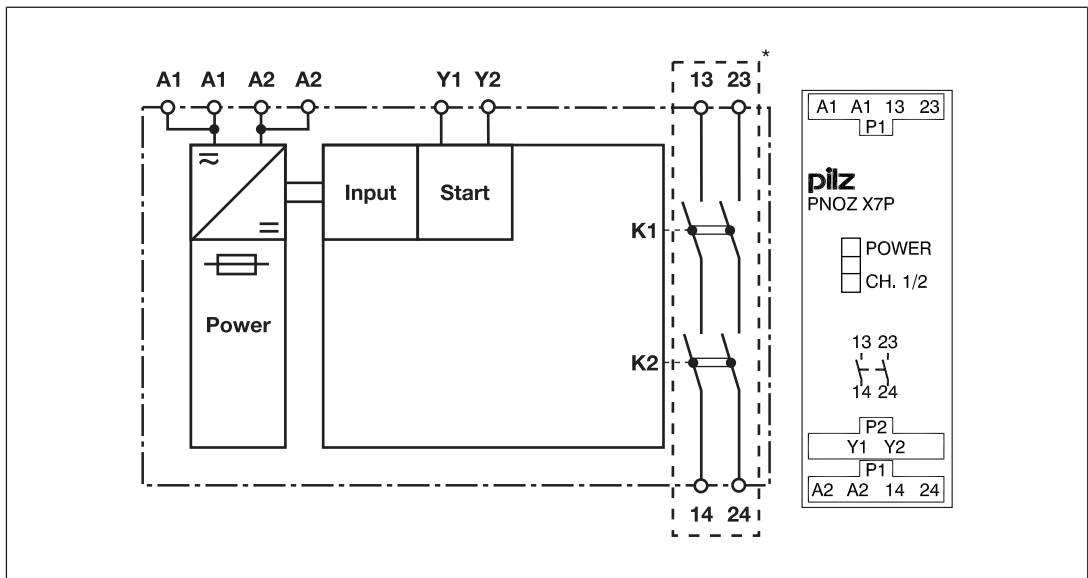
► U_B: 230 - 240 VAC; Product ID 777056



*Insulation between the non-marked area and the relay contacts: Basic insulation (over-voltage category III), Protective separation (overvoltage category II)

Types: AC/DC

► U_B: 24 VAC/DC; Product ID 777059, 787059



*Insulation between the non-marked area and the relay contacts: Basic insulation (over-voltage category III), Protective separation (overvoltage category II)

Function Description

The safety relay PNOZ X7P provides a safety-oriented interruption of a safety circuit. When the supply voltage is applied via the E-STOP pushbutton, the "POWER" LED is lit. The unit is ready for operation when the start circuit and feedback loop Y1-Y2 is closed.

- ▶ Input circuit is closed (e.g. E-STOP pushbutton not operated):
 - The LED "CH. 1/2" lights.
 - Safety contacts 13-14 and 23-24 are closed. The unit is active.
- ▶ Input circuit is opened (e.g. E-STOP pushbutton operated):
 - The LED "CH. 1/2" goes out.
 - Safety contacts 13-14 and 23-24 are redundantly opened.

Operating modes

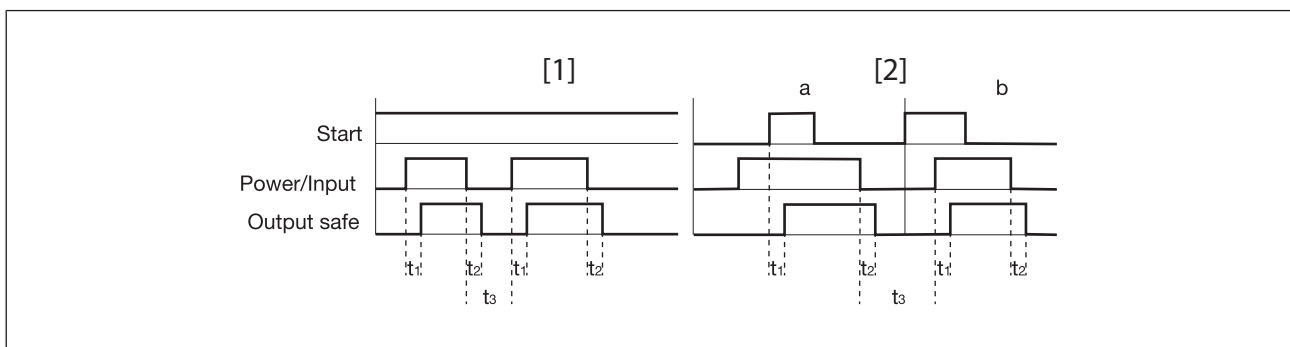
- ▶ Single-channel operation: No redundancy in the input circuit, earth faults in the start and input circuit are detected.
- ▶ Automatic start: Unit is active once the input circuit has been closed.
- ▶ Manual start: Unit is active once the input circuit and the start circuit are closed.
- ▶ Increase in the number of available contacts by connecting contact expansion modules or external contactors/relays.



NOTICE

The device does not recognise short circuits or shorts across contacts in the start/feedback loop. Take suitable measures, such as fault exclusion through protected or separate installation.

Timing diagram



Legend

- ▶ Power: Supply voltage
- ▶ Start: Start circuit
- ▶ Input: Input circuit
- ▶ Output safe: Safety contacts
- ▶ [1]: Automatic start
- ▶ [2]: Manual start

- ▶ a: Input circuit closes before start circuit
- ▶ b: Start circuit closes before input circuit
- ▶ t_1 : Switch-on delay
- ▶ t_2 : Delay-on de-energisation
- ▶ t_3 : Recovery time

Installation



NOTICE

Protection against manipulation

Protect the product from unauthorised access.

- ▶ The unit should be installed in a control cabinet with a protection type of at least IP54.
- ▶ Use the notch on the rear of the unit to attach it to a DIN rail (35 mm).
- ▶ When installed vertically: secure the unit by using a fixing element (e.g. retaining bracket or end angle).

Wiring

Please note:

- ▶ Information given in the "[Technical details \[15\]](#)" must be followed.
- ▶ Calculating the max. cable length l_{max} in the input circuit on PNOZ X7P 24 VAC/DC:

$$l_{max} = \frac{R_{lmax}}{R_l / km}$$

R_{lmax} = max. overall cable resistance (see [Technical details \[15\]](#))

R_l / km = cable resistance/km

- ▶ Calculating the max. cable length l_{max} in the input circuit on PNOZ X7P AC units:

$$l_{max} = \frac{C_{lmax}}{C_l / km}$$

C_{lmax} = max. overall line capacitance (see [Technical details \[15\]](#))

C_l / km = line capacitance/km

Stub circuit: The max. permitted cable length l_{max} depends on the max. overall line capacitance C_{lmax} (see [Technical details \[15\]](#)).

Alternative: Loop circuit: Capacitance is negligible; 1 phase: Max. cable length l_{max} : 1 km

	Stub circuit	Loop circuit
Cable length		



WARNING!


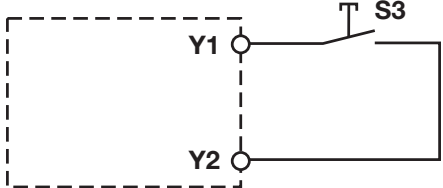
If the max. overall line capacitance is exceeded, the unit will no longer switch off safely and serious injuries and death may result.

Always comply with the max. overall line capacitance.

- ▶ The outputs 13-14, 23-24 are safety contacts.
- ▶ Do not connect undesignated terminals.
- ▶ To prevent contact welding, a fuse should be connected before the output contacts (see [Technical details \[15\]](#)).
- ▶ Use copper wiring with a temperature stability of 60/75 °C.
- ▶ To prevent EMC interferences (particularly common-mode interferences) the measures described in EN 60204-1 must be executed. This includes the separate routing of cables of the control circuits (input, start and feedback loop) from other cables for energy transmission or the shielding of cables, for example.
- ▶ Adequate protection circuit must be provided on all output contacts with capacitive and inductive loads.
- ▶ Do not switch low currents using contacts that have been used previously with high currents.
- ▶ On AC units: Connect operational earth terminal to functional earth.
- ▶ With 24 V AC/DC units:
The power supply must meet the regulations for extra low voltages with protective electrical separation (SELV, PELV).

Preparing for operation

Supply voltage	AC	24 VAC/DC
Input circuit	Single-channel	Dual-channel
E-STOP		/
Safety gate		/

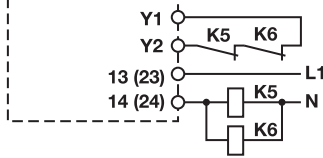
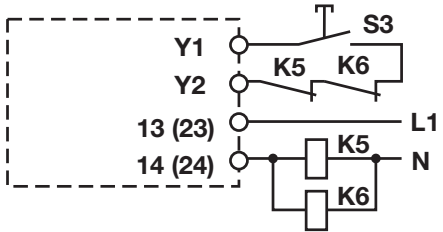
Start circuit	Automatic start	Manual start
		





NOTICE

In the event of an automatic start or manual start with bridged start contact (fault):

The unit starts up automatically when the safeguard is reset, e.g. when the E-STOP pushbutton is released. Use external circuit measures to prevent an unexpected restart.

Feedback loop	Automatic start	Manual start
Contacts from external contactors		

Legend

- ▶ S1: E-STOP/safety gate switch
- ▶ S3: Start button
- ▶ : Gate open
- ▶ : Gate closed

Operation

When the relay outputs are switched on, the mechanical contact on the relay cannot be tested automatically. Depending on the operational environment, measures to detect the non-opening of switching elements may be required under some circumstances.

When the product is used in accordance with the European Machinery Regulation, a check must be carried out to ensure that the safety contacts on the relay outputs open correctly. Open the safety contacts (switch off output) and start the device again, so that the internal diagnostics can check that the safety contacts open correctly

- ▶ For SIL 3/PL e, at least 1x per month
- ▶ For SIL 2/PL d, at least 1x per year

**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.

Status indicators

LEDs indicate the status and errors during operation:



LED on

**POWER**

Supply voltage is present.

**CH. 1/2**

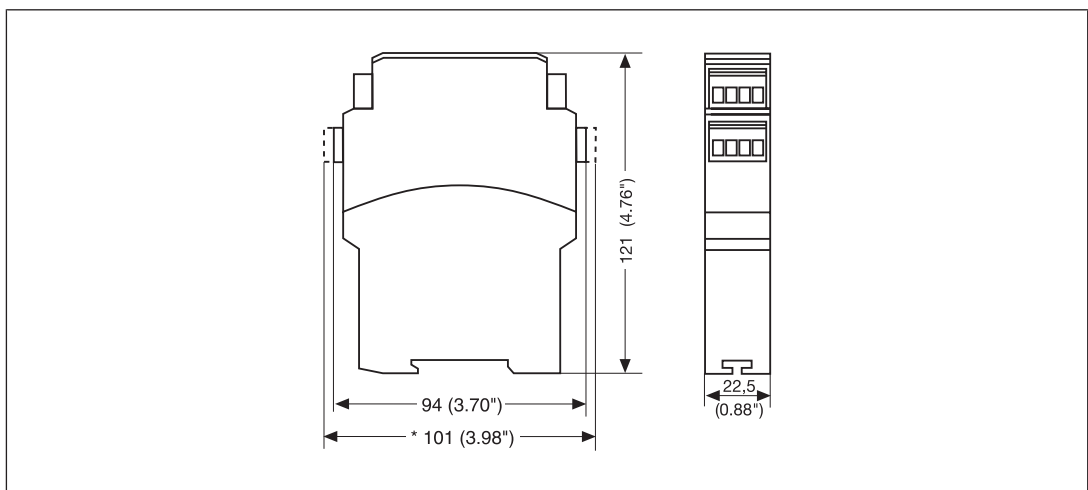
Safety contacts of channel 1 and 2 are closed.

Faults – Interference

- ▶ Earth fault: The supply voltage fails and the safety contacts open. Once the cause of the respective fault has been rectified and the supply voltage is switched off for approx. 1 minute, the unit is ready for operation again.
- ▶ Contact malfunctions: If the contacts have welded, reactivation will not be possible after the input circuit has opened.
- ▶ LED "POWER" does not light: Short circuit or no supply voltage.

Dimensions in mm

* with spring-loaded terminals



Technical details

Where standards are undated, the 2022-09 valid editions apply.

General	777056	777059	787059
Certifications	CCC, CE, EAC, TÜV, UKCA, cULus Listed	CCC, CE, EAC, TÜV, UKCA, cULus Listed	CCC, CE, EAC, TÜV, UKCA, cULus Listed
Electrical data	777056	777059	787059
Supply voltage			
Voltage	230 - 240 V	24 V	24 V
Kind	AC	AC/DC	AC/DC
Voltage tolerance	-15 %/+10 %	-15 %/+10 %	-15 %/+10 %
Output of external power supply (AC)	2 VA	3 VA	3 VA
Output of external power supply (DC)	–	1,5 W	1,5 W
Frequency range AC	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Residual ripple DC	–	160 %	160 %
Duty cycle	100 %	100 %	100 %
Max. inrush current impulse			
Current pulse, A1	–	1,7 A	1,7 A
Pulse duration, A1	–	8 ms	8 ms
Inputs	777056	777059	787059
Quantity	1	1	1
Voltage at			
Input circuit DC	230 - 240 V	24 V	24 V
Start circuit DC	24 V	24 V	24 V
Feedback loop DC	24 V	24 V	24 V
Current at			
Input circuit DC	8 mA	50 mA	50 mA
Start circuit DC	40 mA	210 mA	210 mA
Feedback loop DC	40 mA	210 mA	210 mA
Max. overall cable resistance R _{lmax}			
Single-channel at UB DC	–	15 Ohm	15 Ohm
Single-channel at UB AC	–	15 Ohm	15 Ohm
Max. overall line capacitance C _{lmax}	7 nF	–	–
Relay outputs	777056	777059	787059
Number of output contacts			
Safety contacts (N/O), instantaneous	2	2	2

Relay outputs	777056	777059	787059
Max. short circuit current IK	1 kA	1 kA	1 kA
Utilisation category in accordance with the standard	EN 60947-4-1	EN 60947-4-1	EN 60947-4-1
Utilisation category of safety contacts			
AC1 at	240 V	240 V	240 V
Min. current	0,01 A	0,01 A	0,01 A
Max. current	4 A	6 A	6 A
Max. power	1.000 VA	1.500 VA	1.500 VA
DC1 at	24 V	24 V	24 V
Min. current	0,01 A	0,01 A	0,01 A
Max. current	4 A	6 A	6 A
Max. power	100 W	150 W	150 W
Utilisation category in accordance with the standard	EN 60947-5-1	EN 60947-5-1	EN 60947-5-1
Utilisation category of safety contacts			
AC15 at	230 V	230 V	230 V
Max. current	4 A	5 A	5 A
DC13 (6 cycles/min) at	24 V	24 V	24 V
Max. current	4 A	6 A	6 A
Utilisation category in accordance with UL			
Voltage with current	240 V AC G. P. 4 A	240 V AC G. P. 6 A	240 V AC G. P. 6 A
Voltage with current	24 V DC Resistive 4 A	24 V DC Resistive 6 A	24 V DC Resistive 6 A
Pilot Duty	C300, R300	C300, R300	C300, R300
External contact fuse protection, safety contacts in accordance with the standard	EN 60947-5-1	EN 60947-5-1	EN 60947-5-1
Max. melting integral	240 A²s	240 A²s	240 A²s
Blow-out fuse, quick	4 A	6 A	6 A
Blow-out fuse, slow	4 A	4 A	4 A
Blow-out fuse, gG	4 A	6 A	6 A
Circuit breaker 24V AC/DC, characteristic B/C	4 A	4 A	4 A
Conventional thermal current	–	6 A	6 A
Contact material	AgSnO₂ + 0,2 µm Au	AgSnO₂ + 0,2 µm Au	AgSnO₂ + 0,2 µm Au

Conventional thermal current while loading several contacts	777056	777059	787059
I _{th} per contact at UB AC; AC1: 240 V, DC1: 24 V			
Conv. therm. current with 1 contact	4 A	–	–
Conv. therm. current with 2 contacts	3 A	–	–
Times	777056	777059	787059
Switch-on delay			
with automatic start typ.	230 ms	50 ms	50 ms
with automatic start max.	700 ms	150 ms	150 ms
with automatic start after power on typ.	230 ms	50 ms	50 ms
with automatic start after power on max.	700 ms	150 ms	150 ms
with manual start typ.	140 ms	35 ms	35 ms
with manual start max.	700 ms	150 ms	150 ms
Delay-on de-energisation			
with E-STOP typ.	70 ms	45 ms	45 ms
with E-STOP max.	100 ms	70 ms	70 ms
with power failure typ.	70 ms	45 ms	45 ms
with power failure max.	100 ms	70 ms	70 ms
Recovery time at max. switching frequency 1/s			
after E-STOP	120 ms	50 ms	50 ms
after power failure	120 ms	150 ms	150 ms
Supply interruption before de-energisation	20 ms	20 ms	20 ms
Environmental data	777056	777059	787059
Climatic suitability	EN 60068-2-78	EN 60068-2-78	EN 60068-2-78
Ambient temperature			
Temperature range	-10 - 55 °C	-10 - 55 °C	-10 - 55 °C
Storage temperature			
Temperature range	-40 - 85 °C	-40 - 85 °C	-40 - 85 °C
Climatic suitability			
Humidity	93 % r. h. at 40 °C	93 % r. h. at 40 °C	93 % r. h. at 40 °C
Condensation during operation	Not permitted	Not permitted	Not permitted
EMC	EN 60947-5-1, EN 61000-6-2, EN 61326-3-1	EN 60947-5-1, EN 61000-6-2, EN 61326-3-1	EN 60947-5-1, EN 61000-6-2, EN 61326-3-1

Environmental data	777056	777059	787059
Vibration			
in accordance with the standard	EN 60068-2-6	EN 60068-2-6	EN 60068-2-6
Frequency	10 - 55 Hz	10 - 55 Hz	10 - 55 Hz
Amplitude	0,35 mm	0,35 mm	0,35 mm
Airgap creepage			
in accordance with the standard	EN 60947-1	EN 60947-1	EN 60947-1
Overvoltage category	III / II	III / II	III / II
Pollution degree	2	2	2
Rated insulation voltage	250 V	250 V	250 V
Rated impulse withstand voltage	4 kV	4 kV	4 kV
Protection type			
Housing	IP40	IP40	IP40
Terminals	IP20	IP20	IP20
Mounting area (e.g. control cabinet)	IP54	IP54	IP54
Mechanical data	777056	777059	787059
Mounting position	Any	Any	Any
Mechanical life	10,000,000 cycles	10,000,000 cycles	10,000,000 cycles
Material			
Bottom	PPO UL 94 V1	PPO UL 94 V1	PPO UL 94 V1
Front	ABS UL 94 V0	ABS UL 94 V0	ABS UL 94 V0
Top	PPO UL 94 V1	PPO UL 94 V1	PPO UL 94 V1
Connection type	Screw terminal	Screw terminal	Spring-loaded terminal
Mounting type	plug-in	plug-in	plug-in
Conductor cross section with screw terminals			
1 core flexible	0,25 - 2,5 mm², 24 - 12 AWG	0,25 - 2,5 mm², 24 - 12 AWG	–
2 core with the same cross section, flexible with crimp connectors, no plastic sleeve	0,25 - 1 mm², 24 - 16 AWG	0,25 - 1 mm², 24 - 16 AWG	–
2 core with the same cross section, flexible without crimp connectors or with TWIN crimp connectors	0,2 - 1,5 mm², 24 - 16 AWG	0,2 - 1,5 mm², 24 - 16 AWG	–
Torque setting with screw terminals	0,5 Nm	0,5 Nm	–
Stripping length with screw terminals	7 mm	7 mm	–
Conductor cross section with spring-loaded terminals: Flexible with/without crimp connector	–	–	0,2 - 1,5 mm², 24 - 16 AWG

Mechanical data	777056	777059	787059
Spring-loaded terminals: Terminal points per connection	–	–	2
Stripping length with spring-loaded terminals	–	–	8 mm
Dimensions			
Height	94 mm	94 mm	101 mm
Width	22,5 mm	22,5 mm	22,5 mm
Depth	121 mm	121 mm	121 mm
Weight	230 g	190 g	190 g

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]
–	PL e	Cat. 4	SIL 3	2,31E-09	SIL 3	2,03E-06	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



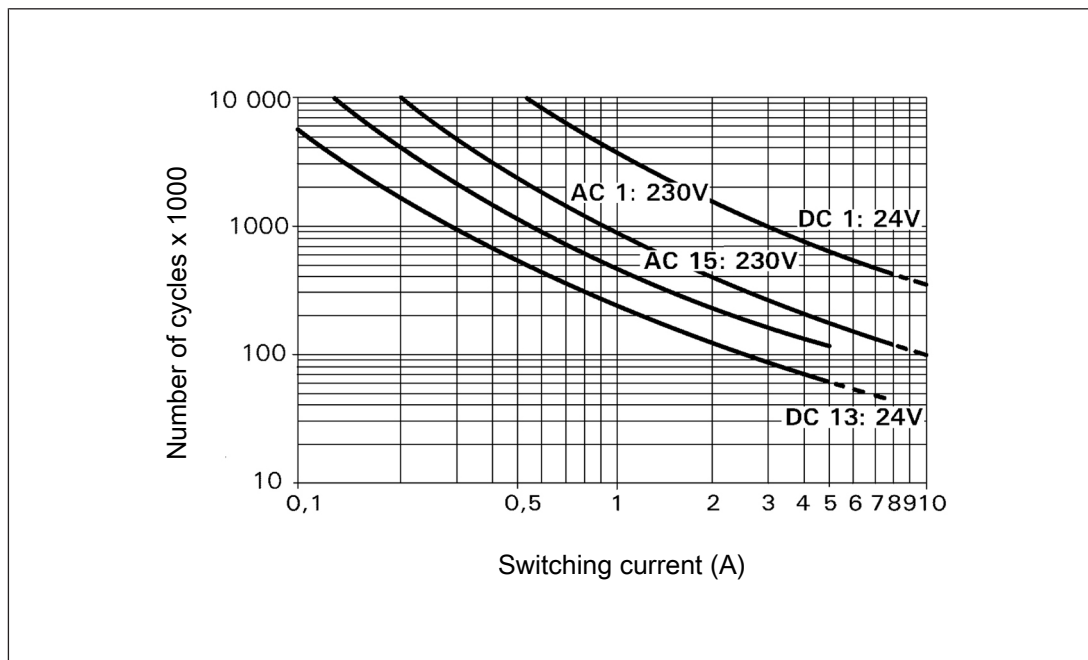
CAUTION!

It is essential to consider the relay's service life graphs. The relay outputs' safety-related characteristic data is only valid if the values in the service life graphs are met.

The PFH value depends on the switch frequency and the load of the relay output. If the service life graphs are not accessible, the stated PFH value can be used irrespective of the switch frequency and the load, as the PFH value already considers the relay's B10d value as well as the failure rates of the other components.

Service life graph

The service life graphs indicate the number of cycles from which failures due to wear must be expected. The wear is mainly caused by the electrical load; the mechanical load is negligible.



Example

- ▶ Inductive load: 0.2 A
- ▶ Utilisation category: AC15
- ▶ Contact service life: 4 000 000 cycles

Provided the application to be implemented requires fewer than 4 000 000 cycles, the PFH value (see Technical details) can be used in the calculation.

To increase the service life, sufficient spark suppression must be provided on all output contacts. With capacitive loads, any power surges that occur must be noted. With DC contactors, use flywheel diodes for spark suppression.

Order reference

Product type	Features	Connection type	Product ID
PNOZ X7P C	24 VAC/DC:	Spring-loaded terminals	787059
PNOZ X7P	24 VAC/DC:	Screw terminals	777059
PNOZ X7P	230 - 240 VAC	Screw terminals	777056

EU/EC declaration of conformity

These products meet the requirements of the directive 2006/42/EC on machinery up to and including 19 January 2027, and the EU regulation 2023/1230 of the European Parliament and of the Council from 20 January 2027. The full EU and EC declaration of conformity is available to download at www.pilz.com/manuals.

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

UKCA-Declaration of Conformity

These products comply 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/manuals.

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.

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Reporting security vulnerabilities or security incidents

If you would like to report a security vulnerability or a security incident in connection with a Pilz product, please contact our **Pilz Product Security Incident Response Team (PSIRT)**.

You can reach us at: www.pilz.com/psirt

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.



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