



► PNOZ 2VJ

PILZ

THE SPIRIT OF SAFETY

Operating Manual-18604-EN-09

- Safety relays



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.

All rights to this documentation are reserved by Pilz GmbH & Co. KG. Copies may be made for the user's internal purposes. Suggestions and comments for improving this documentation will be gratefully received.

CECE®, CHRE®, CMSE®, INDUSTRIAL PI®, Leansafe®, MYZEL®, PAS4000®, PAS-cal®, PASconfig®, Pilz®, PIT®, PMCprimo®, PMCprotego®, PM Ctendo®, PMD®, PMI®, PNOZ®, Primo®, PSEN®, PSS®, PVIS®, SafetyBUS p®, SafetyEYE®, SafetyNET p®, THE SPIRIT OF SAFETY® are registered and protected trademarks of Pilz GmbH & Co. KG in some countries.



SD means Secure Digital

Introduction	4
Validity of documentation	4
Using the documentation	4
Definition of symbols	4
Safety	5
Intended use	5
Safety regulations	5
Safety assessment	5
Use of qualified personnel	6
Warranty and liability	6
Disposal	6
For your safety	6
Unit features	7
Safety features	7
Block diagram/terminal configuration	7
Function Description	8
Operating modes	8
Timing diagram	9
Installation	10
Wiring	10
Preparing for operation	11
Operation	12
Status indicators	13
Faults – Interference	13
Dimensions in mm	14
Technical details	14
Safety characteristic data	19
Supplementary data	20
Service life graph	20
Order reference	21
EC declaration of conformity	22
UKCA-Declaration of Conformity	22

Introduction

Validity of documentation

This documentation is valid for the product PNOZ 2VJ. 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 2VJ 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](#) [ 14]).

**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, maintained and decommissioned 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. To be able to inspect, assess and operate devices, systems and machines, the person has to be informed of 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 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

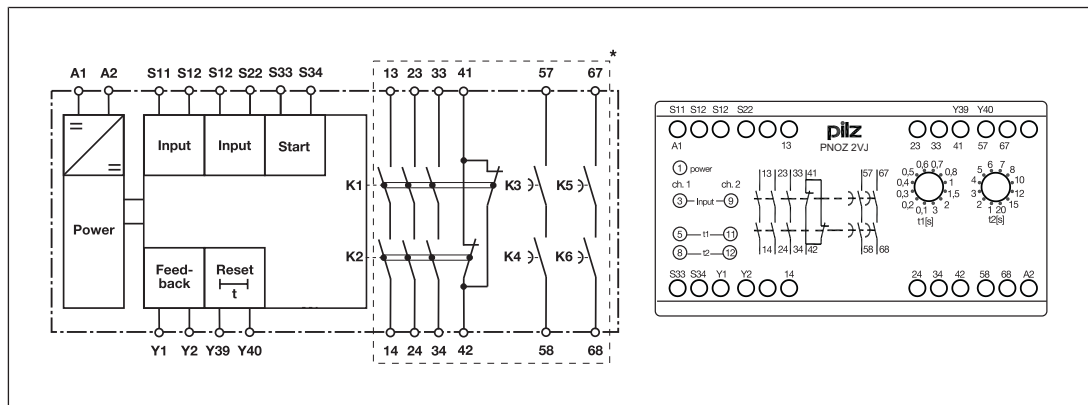
- ▶ Positive-guided relay outputs:
 - 3 safety contacts (N/O), instantaneous
 - 2 safety contacts (N/O), delay-on de-energisation
 - 1 auxiliary contact (N/C), instantaneous
- ▶ Connection options for:
 - E-STOP pushbutton
 - Safety gate limit switch
 - Start button
- ▶ Delay-on de-energisation can be set separately for both safety contacts with delay-on de-energisation
- ▶ Possible to cancel delay time
- ▶ LED display for:
 - Supply voltage
 - Switch status of the safety contacts

Safety features

The safety relay meets the following safety requirements:

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

Block diagram/terminal configuration



*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 2VJ provides a safety-oriented interruption of a safety circuit. When supply voltage is supplied the "POWER" LED is lit. The unit is ready for operation when the feedback loop Y1-Y2, the reset circuit Y39-Y40 and the start circuit S33-S34 are closed.

- ▶ Input circuit is closed (e.g. E-STOP pushbutton not operated):
 - The LEDs "CH.1 Input", "CH.1 t1", "CH.1 t2" and "CH.2 Input", "CH.2 t1", "CH.2 t2" are lit.
 - Safety contacts 13-14, 23-24, 33-34, 57-58 and 67-68 are closed, auxiliary contact 41-42 is opened. The unit is active.
- ▶ Input circuit is opened (e.g. E-STOP pushbutton operated):
 - The LEDs "CH.1 Input" and "CH.2 Input" go out.
 - Safety contacts 13-14, 23-24 and 33-34 are opened redundantly, auxiliary contact 41-42 is closed.
 - Once the delay time t1 has elapsed, safety contact 57-58 opens.
 - LEDs "CH.1 t1" and "CH.2 t1" go out.
 - Once the delay time t2 has elapsed, safety contact 67-68 opens.
 - The LEDs "CH.1 t2" and "CH.2 t2" go out.

The delay times t1 for safety contact 57-58 and t2 for safety contact 67-68 can be set on the front of the unit using a screwdriver.

Reset function:

The cycle for delay times t1 and t2 can be ended prematurely by opening the reset circuit Y39-Y40. For this purpose, one N/C contact is connected between Y39-Y40 instead of a link.



NOTICE

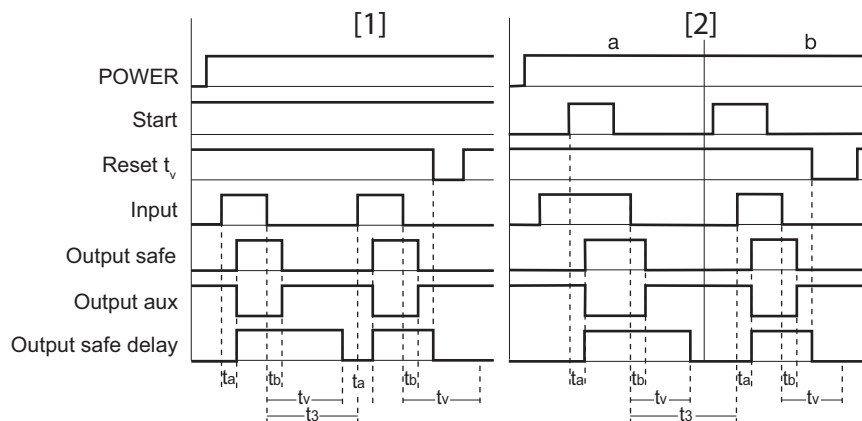
If the safety requirement (e.g. E-STOP pushbutton operated) is triggered < 6 s after starting, the delay-on de-energisation of the instantaneous safety contacts may be increased (see [Technical details](#) [14]).

Operating modes

- ▶ Single-channel operation: No redundancy in the input circuit, earth faults in the start and input circuit are detected.
- ▶ Dual-channel operation without detection of shorts across contacts: Redundant input circuit, detects PNOZ 2VJ
 - earth faults in the start and input circuit,
 - short circuits in the input circuit.
- ▶ 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
- ▶ Reset t_v : Reset
- ▶ Input: Input circuit
- ▶ Output safe: Safety contacts, instantaneous
- ▶ Output safe delay: Safety contacts, delayed
- ▶ Output aux: Auxiliary contact
- ▶ [1]: Automatic start
- ▶ [2]: Manual start
- ▶ a: Input circuit closes before start circuit
- ▶ b: Start circuit closes before input circuit
- ▶ t_a : Switch-on delay
- ▶ t_b : Delay-on de-energisation instantaneous contacts
- ▶ t_v : Delay time (t_1/t_2)
- ▶ t_3 : Recovery time

**NOTICE**

At the latest the safety contacts open after the set delay time + 50 ms + 15% of the set value, even in the case of a component failure.

Installation

- ▶ Install the safety relay 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](#)  14]" must be followed.
- ▶ Outputs 13-14, 23-24, 33-34 are instantaneous safety contacts, outputs 57-58, 67-68 are delay-on de-energisation safety contacts, output 41-42 is an instantaneous auxiliary contact (e.g. for display).
- ▶ Auxiliary contact 41-42 should **not** be used for safety circuits!
- ▶ Do not connect undesignated terminals.
- ▶ To prevent contact welding, a fuse should be connected before the output contacts (see [Technical details](#)  14]).
- ▶ Calculation of the max. cable length $l_{\max}$ in the input circuit:

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

$R_{l\max}$ = max. overall cable resistance (see [Technical details](#)  14])

R_l / km = cable resistance/km

- ▶ 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 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.
- ▶ The power supply must comply with the regulations for extra low voltages with protective electrical separation (SELV, PELV) in accordance with VDE 0100, Part 410.

Preparing for operation

Supply voltage	AC	DC
Input circuit	Single-channel	Dual-channel
E-STOP without detection of shorts across contacts		
Safety gate without detection of shorts across contacts		



NOTICE

With single-channel wiring the safety level of your machine/plant may be lower than the safety level of the unit (see [Safety characteristic data](#) [19]).

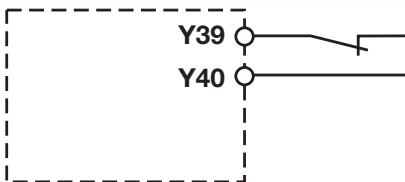
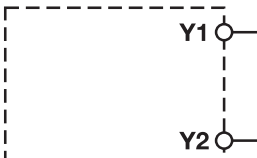
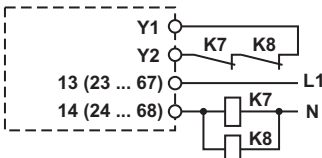
Start circuit	E-STOP wiring (single-channel and dual-channel) Safety gate (dual-channel, position monitoring)	Safety gate (dual-channel, with start-up test)
Automatic start		
Manual start		



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.

Reset circuit	Without reset	With reset
Link or N/C contact		
Feedback loop	Without feedback loop monitoring	With feedback loop monitoring
Link or contacts from external contactors		

Legend

- ▶ S1/S2: E-STOP/safety gate switch
- ▶ S3: Reset button
- ▶ : Switch operated
- ▶ : 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 Directive, 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 Input**

Channel 1 safety contacts are closed.

**CH.2 Input**

Channel 2 safety contacts are closed.

**CH.1 t1**

Channel 3 safety contacts are closed.

**CH.2 t1**

Channel 4 safety contacts are closed.

**CH.1 t2**

Channel 5 safety contacts are closed.

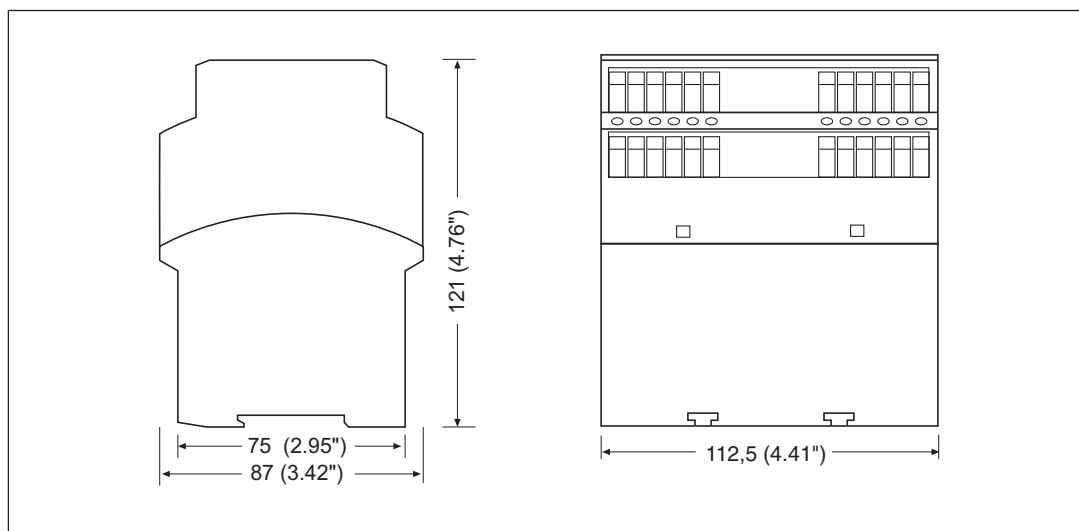
**CH.2 t2**

Channel 6 safety contacts 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.
- ▶ In the case of an error, the delay-on de-energisation contacts may open before the delay time has elapsed.

Dimensions in mm



Technical details

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

General

Certifications **CCC, CE, EAC, TÜV, UKCA, cULus Listed**

Electrical data

Supply voltage

Voltage	-24 V
Kind	DC
Voltage tolerance	-15 %/+10 %
Output of external power supply (DC)	6,5 W
Residual ripple DC	160 %

Duty cycle **100 %**

Max. inrush current impulse

Current pulse, A1	10 A
Pulse duration, A1	0,25 ms

Inputs

Quantity **2**

Voltage at

Input circuit DC	24 V
Start circuit DC	24 V
Feedback loop DC	24 V

Current at

Input circuit DC	35 mA
Start circuit DC	100 mA
Feedback loop DC	100 mA

InputsMax. overall cable resistance R_{lmax} Single-channel at UB DC **60 Ohm**Dual-channel without detection of shorts across
contacts at UB DC **120 Ohm****Relay outputs**

Number of output contacts

Safety contacts (N/O), instantaneous **3**Safety contacts (N/O), delayed **2**Auxiliary contacts (N/C) **1**Max. short circuit current I_K **1 kA**

Utilisation category

in accordance with the standard **EN 60947-4-1**

Utilisation category of safety contacts

AC1 at **240 V ***Min. current **0,01 A**Max. current **8 A**Max. power **2.000 VA**DC1 at **24 V**Min. current **0,01 A**Max. current **8 A**Max. power **200 W**

Utilisation category of safety contacts delayed

AC1 at **240 V**Min. current **0,01 A**Max. current **4 A**Max. power **1000 VA**DC1 at **24 V**Min. current **0,01 A**Max. current **4 A**Max. power **100 W**

Utilisation category of auxiliary contacts

AC1 at **240 V**Min. current **0,01 A**Max. current **8 A**Max. power **2000 VA**DC1 at **24 V**Min. current **0,01 A**Max. current **8 A**Max. power **200 W**

Utilisation category

in accordance with the standard **EN 60947-5-1**

Relay outputs

Utilisation category of safety contacts

AC15 at	230 V
Max. current	5 A
DC13 (6 cycles/min) at	24 V
Max. current	7 A

Utilisation category of safety contacts delayed

AC15 at	230 V
Max. current	4 A
DC13 (6 cycles/min) at	24 V
Max. current	4 A

Utilisation category of auxiliary contacts

AC15 at	230 V
Max. current	5 A
DC13 (6 cycles/min) at	24 V
Max. current	7 A

Utilisation category in accordance with UL

Voltage	240 V AC G. P.
with current	8 A
Pilot Duty	C300, R300

External contact fuse protection, safety contacts

in accordance with the standard	EN 60947-5-1
Max. melting integral	240 A²s
Blow-out fuse, quick	10 A
Blow-out fuse, slow	6 A
Blow-out fuse, gG	10 A
Circuit breaker 24V AC/DC, characteristic B/C	6 A

External contact fuse protection, delayed safety contacts

Max. melting integral	240 A²s
Blow-out fuse, quick	6 A
Blow-out fuse, slow	4 A
Blow-out fuse, gG	6 A
Circuit breaker, 24 V AC/DC, characteristic B/C	4 A

External contact fuse protection, auxiliary contacts

Max. melting integral	240 A²s
Blow-out fuse, quick	10 A
Blow-out fuse, slow	6 A
Blow-out fuse, gG	10 A
Circuit breaker, 24 V AC/DC, characteristic B/C	6 A

Contact material	AgSnO₂ + 0,2 µm Au
------------------	--------------------------------------

Conventional thermal current while loading several contacts

lth per contact at UB DC; AC1: 240 V, DC1: 24 V

Conv. therm. current with 1 contact	8 A
Conv. therm. current with 2 contacts	6,8 A
Conv. therm. current with 3 contacts	5,5 A
Conv. therm. current with 4 contacts	5 A
Conv. therm. current with 5 contacts	4,5 A

Times

Switch-on delay

with automatic start typ.	200 ms
with automatic start max.	300 ms
with automatic start after power on typ.	200 ms
with automatic start after power on max.	300 ms
with manual start typ.	200 ms
with manual start max.	300 ms

Delay-on de-energisation

with E-STOP typ.	15 ms
with E-STOP, duty cycle < 6 s, max.	400 ms
with E-STOP, duty cycle ≥ 6 s, max.	30 ms
with power failure typ.	30 ms
with power failure max.	400 ms

Recovery time at max. switching frequency 1/s

after E-STOP	50 ms +tv
after power failure	100 ms

Delay time t1 0,1 s, 0,2 s, 0,3 s, 0,4 s, 0,5 s, 0,6 s, 0,7 s, 0,8 s, 1 s, 1,5 s, 2 s, 3 s

Delay time t2 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 10 s, 12 s, 15 s, 20 s

Time accuracy -15 %/+15 % +50 ms

Repetition accuracy 2 %

Supply interruption before de-energisation 20 ms

Simultaneity, channel 1 and 2 max. 150 ms

Environmental data

Climatic suitability EN 60068-2-78

Ambient temperature

Temperature range -10 - 55 °C

Storage temperature

Temperature range -40 - 85 °C

Climatic suitability

Humidity 93 % r. h. at 40 °C

Condensation during operation Not permitted

EMC EN 60947-5-1, EN 61000-6-2, EN 61326-3-1

Environmental data

Vibration

in accordance with the standard	EN 60068-2-6
Frequency	10 - 55 Hz
Amplitude	0,35 mm

Airgap creepage

in accordance with the standard	EN 60947-1
Overvoltage category	III / II
Pollution degree	2

Rated insulation voltage	250 V *
--------------------------	----------------

Rated impulse withstand voltage	4 kV
---------------------------------	-------------

Protection type

Housing	IP40
Terminals	IP20
Mounting area (e.g. control cabinet)	IP54

Mechanical data

Mounting position	Any
-------------------	------------

Mechanical life	10,000,000 cycles
-----------------	--------------------------

Material

Bottom	PPO UL 94 V1
Front	ABS UL 94 V0
Top	PPO UL 94 V1

Connection type	Screw terminal
-----------------	-----------------------

Mounting type	Fixed
---------------	--------------

Conductor cross section with screw terminals

1 core flexible	0,2 - 4 mm², 24 - 10 AWG
2 core with the same cross section, flexible with crimp connectors, no plastic sleeve	0,2 - 2,5 mm², 24 - 14 AWG
2 core with the same cross section, flexible without crimp connectors or with TWIN crimp connectors	0,2 - 2,5 mm², 24 - 14 AWG

Torque setting with screw terminals	0,5 Nm
-------------------------------------	---------------

Stripping length with screw terminals	6 mm
---------------------------------------	-------------

Dimensions

Height	87 mm
Width	112,5 mm
Depth	121 mm

Weight	600 g
--------	--------------

**NOTICE***** Changed values**

In earlier versions of this operating manual, higher values were stated for AC1 for the utilisation category for safety contacts and for the rated insulation voltage. These have been corrected in this version.

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: 2015	EN ISO 13849-1: 2015	EN IEC 62061 SIL CL/max. SIL	EN IEC 62061 61508 PFH [1/h]	EN/IEC 61511 61508 SIL	EN/IEC 61511 61508 PFD	EN ISO 13849-1: 2015 T _M [year]
Safety contacts, instantaneous	PL e	Cat. 4	SIL 3	2,31E-09	SIL 3	2,03E-06	20
Safety contacts, delayed <30 s	PL d	Cat. 3	SIL 3	4,94E-09	SIL 3	1,26E-05	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.

Instantaneous safety contacts:

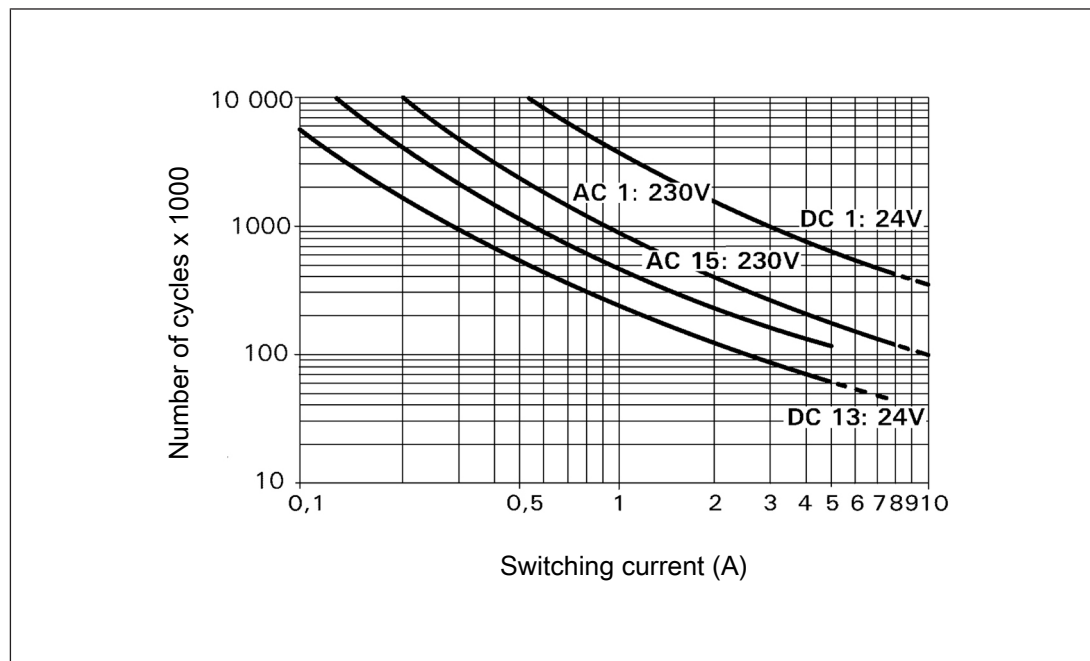


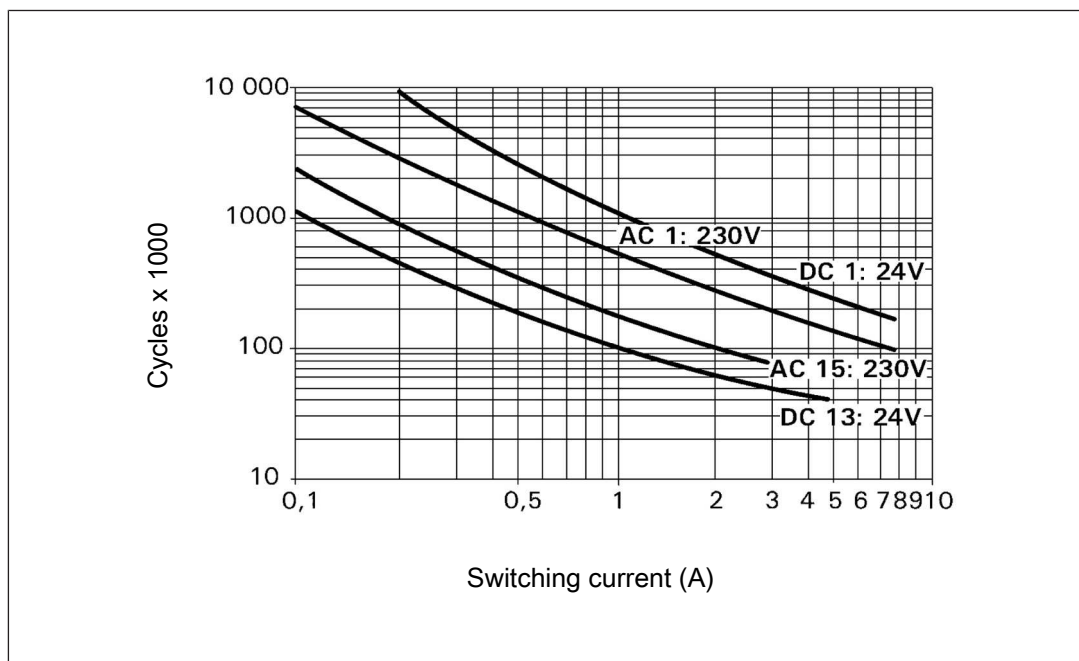
Fig.: Service life graph_SIR_SLR

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.

Delayed safety contacts:**Example**

- ▶ Inductive load: 0.2 A,
- ▶ Utilisation category: AC15
- ▶ Contact service life: 900 000 cycles

Provided the application to be implemented requires fewer than 900 000 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	Order no.
PNOZ 2VJ	-24 V DC	Screw terminals	774012

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

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.

Americas

Brazil

+55 11 97569-2804

Canada

+1 888 315 7459

Mexico

+52 55 5572 1300

USA (toll-free)

+1 877-PILZUSA (745-9872)

Asia

China

+86 400-088-3566

Japan

+81 45 471-2281

South Korea

+82 31 778 3390

Australia and Oceania

Australia

+61 3 95600621

New Zealand

+64 9 6345350

Europe

Austria

+43 1 7986263-444

Belgium, Luxembourg

+32 9 3217570

France

+33 3 88104003

Germany

+49 711 3409-444

Ireland

+353 21 4804983

Italy, Malta

+39 0362 1826711

Scandinavia

+45 74436332

Spain

+34 938497433

Switzerland

+41 62 88979-32

The Netherlands

+31 347 320477

Türkiye

+90 216 5775552

United Kingdom

+44 1536 460866

**You can reach our
international hotline on:**

+49 711 3409-222

support@pilz.com

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.



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

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