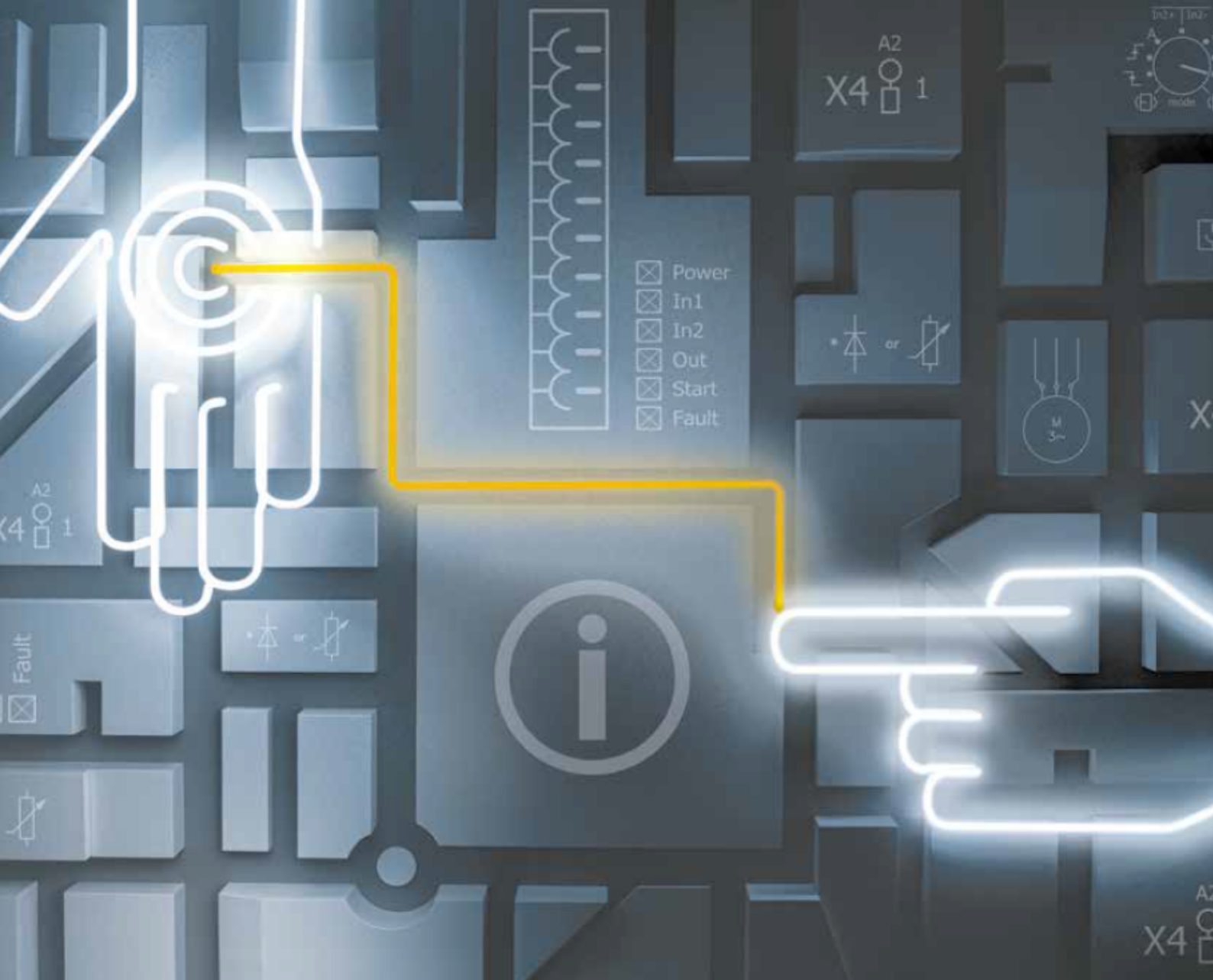




► PZE 9

PILZ
THE SPIRIT OF SAFETY

Operating Manual-1001635-EN-12
- Safety relays



This document is a translation of 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

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
Type: DC	7
Types: AC	8
Function description	8
Installation	8
Wiring	9
Preparing for operation	9
Operation	10
Status indicators	11
Faults – Interference	11
Dimensions in mm	11
Technical details	12
Safety characteristic data	17
Supplementary data	17
Service life graph	18
Order reference	18
EU/EC declaration of conformity	19
UKCA-Declaration of Conformity	19

Introduction

Validity of documentation

This documentation is valid for the product PZE 9. 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 contact expansion module PZE 9 meets the requirements of EN 60947-5-1 and EN 60204- 1. It is an expansion module for increasing the number of contacts available on a base unit. Base units are all

- ▶ Safety relays with feedback loop
- ▶ programmable safety systems with feedback loop

The max. achievable safety level depends on the base unit. The expansion module may not exceed this. The safety-related characteristic values stated under [safety-related characteristic data](#) [ 17] can only be achieved if the base unit also exhibits these safety characteristic values.

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](#) [ 12]).

**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

Product installation, assembly, programming, commissioning, operation, decommissioning and maintenance may only be carried out by competent persons.

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, regulations, 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 section on "Safety" in this description and
- ▶ 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:
 - 8 safety contacts (N/O), instantaneous
 - 1 auxiliary contact (N/C), instantaneous
- ▶ LED display for:
 - Supply voltage
 - Switch status of the safety contacts
- ▶ Connection for feedback loop
- ▶ Operation: Single or dual-channel
- ▶ See order reference for unit types

Safety features

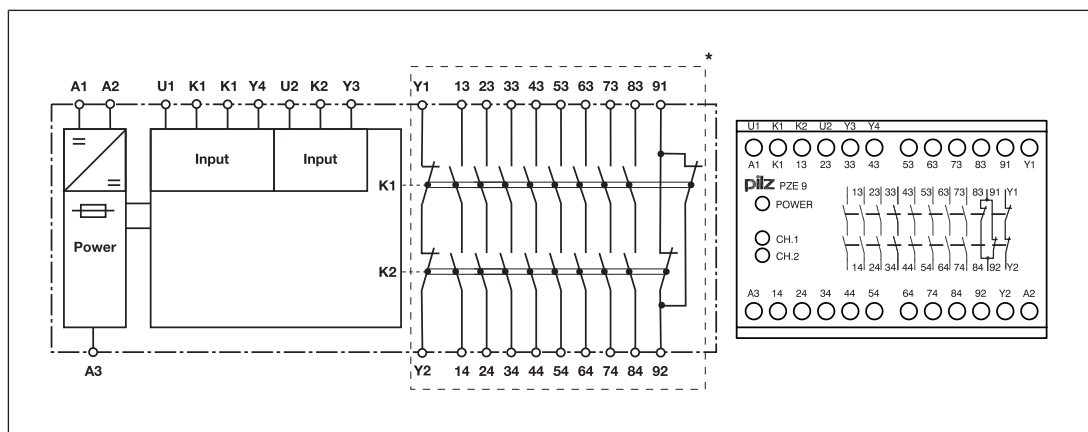
The unit meets the following safety requirements:

- ▶ The contact expansion module expands an existing circuit. As the output relays are monitored via the base unit's feedback loop, the safety functions on the existing circuit are transferred to the contact expansion module.
- ▶ The safety function remains effective in the case of a component failure.
- ▶ Earth fault in the feedback loop:
Detected, depending on the base unit that is used.
- ▶ Earth fault in the input circuit:
The output relays de-energise and the safety contacts open.

Block diagram/terminal configuration

Type: DC

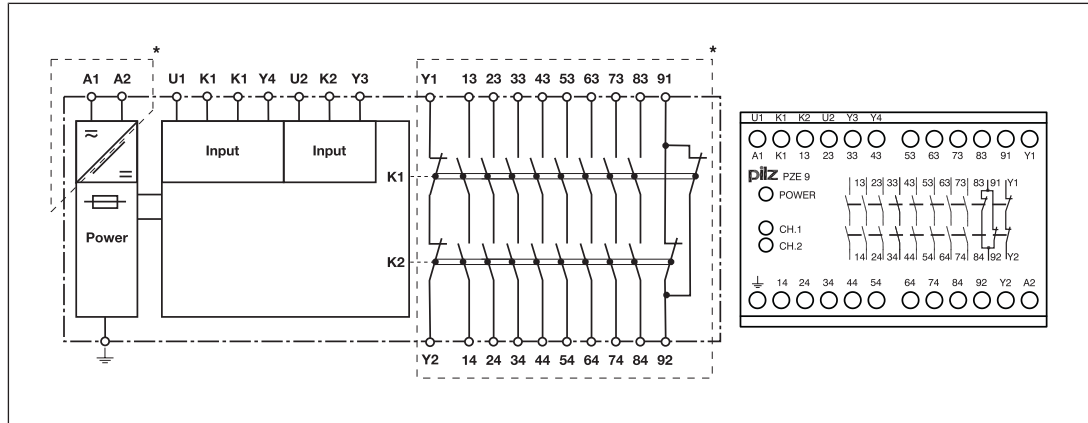
- ▶ U_B : 24 DC; Product ID 774150



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

Types: AC

- ▶ U_B : 110 - 120 VAC; Product ID 774143
- ▶ U_B : 230 - 240 VAC; Product ID 774148



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

Function description

The contact expansion module PZE 9 is an add-on device without delay-on de-energisation. It is used to expand a safety circuit. The contact expansion module is driven by a base unit (e. g. emergency stop relay). When operating voltage is supplied the "POWER" LED will light.

- ▶ Functional procedure once the input circuit is closed (e.g. safety contacts on the base unit are closed):
 - Safety contacts 13-14, 23-24, 33-34, 43-44, 53-54, 63-64, 73-74 and 83-84 close, auxiliary contact 91-92 opens.
 - The LEDs "CH.1" and "CH.2" are lit.
- ▶ Functional procedure once the input circuit is opened (e.g. safety contacts on the base unit are opened):
 - Safety contacts 13-14, 23-24, 33-34, 43-44, 53-54, 63-64, 73-74 and 83-84 are opened redundantly, auxiliary contact 91-92 is closed.
 - The LEDs "CH.1" and "CH.2" go out.

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 [12]" must be followed.
- ▶ Outputs 13-14, 23-24, 33-34, 43-44, 53-54, 63-64, 73-74, 83-84 are safety contacts; output 91-92 is an auxiliary contact (e.g. for display).
- ▶ Do **not** use auxiliary contact 91-92 for safety circuits!
- ▶ Do not connect undesignated terminals.
- ▶ To prevent contact welding, a fuse should be connected before the output contacts (see Technical details [12]).
- ▶ 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 [12])

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 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 24 VDC devices:
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
without detection of shorts across contacts Base unit: Safety relay PNOZ X Driven via safety contacts		
with detection of shorts across contacts Base unit: Safety relay PNOZ X Driven via safety contacts		
without detection of shorts across contacts Base unit: Safety controller or PNOZmulti Driven via safe semiconductor outputs (24 VDC)		
Feedback loop	Base unit: Safety relay PNOZ X	Base unit: Safety controller or PNOZmulti
The inputs that evaluate the feedback loop will depend on the base unit and application		

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 of the contact expansion module (switch off outputs of the base unit) and start the base unit again so that the internal diagnostics can check that the safety contacts open correctly

- for SIL CL 3/PL e at least 1x per month
- for SIL CL 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**

Safety contacts of channel 1 are closed.

**CH.2**

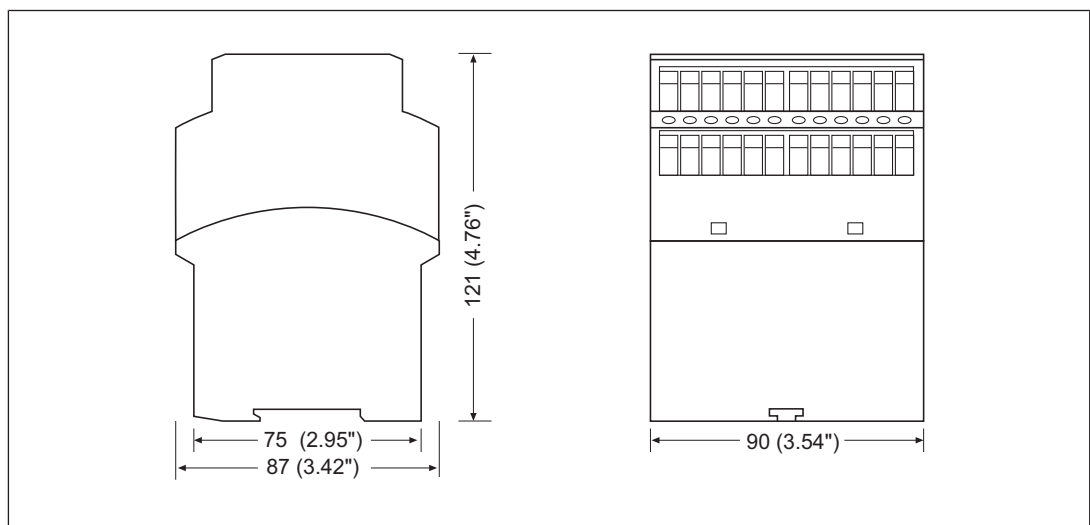
Safety contacts of channel 2 are closed.

Faults – Interference

By closing or interrupting the input circuit you can check whether the unit switches on or off correctly.

For safety reasons, the unit cannot be started if the following faults are present:

- ▶ Contact malfunction: As the contact block is connected to a base unit, reactivation will not be possible if the contacts have welded after the input circuit has opened.
- ▶ Open circuit, short circuit or earth fault (e.g. in the input circuit)

Dimensions in mm

Technical details

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

General	774143	774148	774150
Certifications	CCC, CE, EAC, TÜV, UKCA, cULus Listed	CCC, CE, EAC, TÜV, UKCA, cULus Listed	CCC, CE, EAC, TÜV, UKCA, cULus Listed
Electrical data	774143	774148	774150
Supply voltage			
Voltage	110 - 120 V	230 - 240 V	24 V
Kind	AC	AC	DC
Voltage tolerance	-15 %/+10 %	-15 %/+10 %	-15 %/+10 %
Output of external power supply (AC)	7 VA	7 VA	—
Output of external power supply (DC)	—	—	3,5 W
Frequency range AC	50 - 60 Hz	50 - 60 Hz	—
Residual ripple DC	—	—	160 %
Duty cycle	100 %	100 %	100 %
Inputs	774143	774148	774150
Quantity	2	2	2
Voltage at			
Input circuit DC	24 V	24 V	24 V
Current at			
Input circuit DC	40 mA	40 mA	40 mA
Max. overall cable resistance R _{lmax}			
Single-channel at UB DC	—	—	50 Ohm
Single-channel at UB AC	80 Ohm	80 Ohm	—
Dual-channel without detection of shorts across contacts at UB DC	—	—	100 Ohm
Dual-channel without detection of shorts across contacts at UB AC	160 Ohm	160 Ohm	—
Dual-channel with detection of shorts across contacts at UB DC	—	—	5 Ohm
Dual-channel with detection of shorts across contacts at UB AC	10 Ohm	10 Ohm	—

Relay outputs	774143	774148	774150
Number of output contacts			
Safety contacts (N/O), instantaneous	8	8	8
Auxiliary contacts (N/C)	1	1	1
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	8 A	8 A	8 A
Max. power	2.000 VA	2.000 VA	2.000 VA
DC1 at	24 V	24 V	24 V
Min. current	0,01 A	0,01 A	0,01 A
Max. current	8 A	8 A	8 A
Max. power	200 W	200 W	200 W
Utilisation category of auxiliary contacts			
AC1 at	240 V	240 V	240 V
Min. current	0,01 A	0,01 A	0,01 A
Max. current	2 A	2 A	2 A
Max. power	500 VA	500 VA	500 VA
DC1 at	24 V	24 V	24 V
Min. current	0,01 A	0,01 A	0,01 A
Max. current	2 A	2 A	2 A
Max. power	50 W	50 W	50 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	5 A	5 A	5 A
DC13 (6 cycles/min) at	24 V	24 V	24 V
Max. current	7 A	7 A	7 A
Utilisation category of auxiliary contacts			
AC15 at	230 V	230 V	230 V
Max. current	2 A	2 A	2 A
DC13 (6 cycles/min) at	24 V	24 V	24 V
Max. current	2 A	2 A	2 A

Relay outputs	774143	774148	774150
Utilisation category in accordance with UL			
Voltage	240 V AC G. P.	240 V AC G. P.	240 V AC G. P.
with current	8 A	8 A	8 A
Voltage	24 V DC G. P. Resistive	24 V DC G. P. Resistive	24 V DC G. P. Resistive
with current	5 A	5 A	5 A
Pilot Duty	B300, R300	B300, R300	B300, 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	10 A	10 A	10 A
Blow-out fuse, slow	6 A	6 A	6 A
Blow-out fuse, gG	10 A	10 A	10 A
Circuit breaker 24V AC/DC, characteristic B/C	6 A	6 A	6 A
External contact fuse protection, auxiliary contacts			
Max. melting integral	240 A²s	240 A²s	240 A²s
Blow-out fuse, quick	4 A	4 A	4 A
Blow-out fuse, slow	2 A	2 A	2 A
Blow-out fuse, gG	4 A	4 A	4 A
Circuit breaker, 24 V AC/DC, characteristic B/C	2 A	2 A	2 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	774143	774148	774150
I _{th} per contact at UB AC; AC1: 240 V, DC1: 24 V			
Conv. therm. current with 1 contact	8 A	8 A	—
Conv. therm. current with 2 contacts	8 A	8 A	—
Conv. therm. current with 3 contacts	7,4 A	7,4 A	—
Conv. therm. current with 4 contacts	6,4 A	6,4 A	—
Conv. therm. current with 5 contacts	5,7 A	5,7 A	—
Conv. therm. current with 6 contacts	5,2 A	5,2 A	—
Conv. therm. current with 7 contacts	4,8 A	4,8 A	—
Conv. therm. current with 8 contacts	4,5 A	4,5 A	—

Conventional thermal current while loading several contacts	774143	774148	774150
I _{th} 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	—	—	8 A
Conv. therm. current with 3 contacts	—	—	8 A
Conv. therm. current with 4 contacts	—	—	7,1 A
Conv. therm. current with 5 contacts	—	—	6,3 A
Conv. therm. current with 6 contacts	—	—	5,8 A
Conv. therm. current with 7 contacts	—	—	5,4 A
Conv. therm. current with 8 contacts	—	—	5 A
Times	774143	774148	774150
Switch-on delay			
with automatic start typ.	25 ms	25 ms	30 ms
with automatic start max.	40 ms	40 ms	40 ms
with automatic start after power on typ.	50 ms	50 ms	30 ms
with automatic start after power on max.	70 ms	70 ms	40 ms
Delay-on de-energisation			
with E-STOP typ.	20 ms	20 ms	20 ms
with E-STOP max.	30 ms	30 ms	30 ms
with power failure typ.	220 ms	220 ms	110 ms
with power failure max.	300 ms	300 ms	150 ms
Supply interruption before de-energisation	150 ms	150 ms	20 ms
Environmental data	774143	774148	774150
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

Environmental data	774143	774148	774150
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
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	774143	774148	774150
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	Screw terminal
Mounting type	Fixed	Fixed	Fixed
Conductor cross section with screw terminals			
1 core flexible	0,2 - 4 mm ² , 24 - 10 AWG	0,2 - 4 mm ² , 24 - 10 AWG	0,2 - 4 mm ² , 24 - 10 AWG
2 core with the same cross section, flexible with crimp connectors, no plastic sleeve	0,2 - 2,5 mm ² , 24 - 14 AWG	0,2 - 2,5 mm ² , 24 - 14 AWG	0,2 - 2,5 mm ² , 24 - 14 AWG
2 core with the same cross section, flexible without crimp connectors or with TWIN crimp connectors	0,2 - 2,5 mm ² , 24 - 14 AWG	0,2 - 2,5 mm ² , 24 - 14 AWG	0,2 - 2,5 mm ² , 24 - 14 AWG
Torque setting with screw terminals	0,5 Nm	0,5 Nm	0,5 Nm
Stripping length with screw terminals	6 mm	6 mm	6 mm

Mechanical data	774143	774148	774150
Dimensions			
Height	87 mm	87 mm	87 mm
Width	90 mm	90 mm	90 mm
Depth	121 mm	121 mm	121 mm
Weight	600 g	600 g	450 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



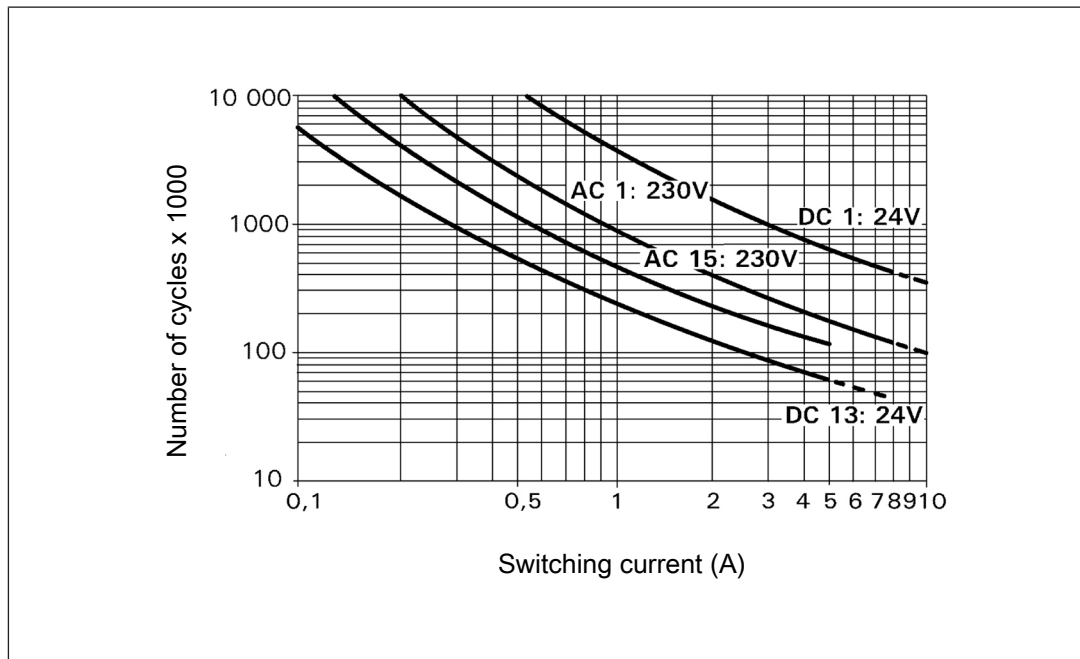
CAUTION!

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
PZE 9	110 - 120 VAC	Screw terminals	774143
PZE 9	230 - 240 VAC	Screw terminals	774148
PZE 9	24 VDC	Screw terminals	774150

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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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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