



## ► PZA

**PILZ**  
THE SPIRIT OF SAFETY

Operating Manual-18219-EN-13  
- Safe monitoring 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

|                                                   |           |
|---------------------------------------------------|-----------|
| <b>Introduction</b> .....                         | <b>5</b>  |
| Validity of documentation .....                   | 5         |
| Using the documentation .....                     | 5         |
| Definition of symbols .....                       | 5         |
| <b>Safety</b> .....                               | <b>6</b>  |
| Intended use .....                                | 6         |
| Safety regulations .....                          | 6         |
| Safety assessment .....                           | 6         |
| Use of qualified personnel .....                  | 7         |
| Warranty and liability .....                      | 7         |
| Disposal .....                                    | 7         |
| For your safety .....                             | 7         |
| <b>Unit features</b> .....                        | <b>8</b>  |
| <b>Safety features</b> .....                      | <b>8</b>  |
| <b>Block diagram/terminal configuration</b> ..... | <b>8</b>  |
| Types: AC .....                                   | 8         |
| Types: DC .....                                   | 9         |
| <b>Function description</b> .....                 | <b>9</b>  |
| <b>Installation</b> .....                         | <b>10</b> |
| <b>Wiring</b> .....                               | <b>10</b> |
| <b>Preparing for Operation</b> .....              | <b>11</b> |
| Delay time .....                                  | 11        |
| <b>Operation</b> .....                            | <b>11</b> |
| Status indicators .....                           | 12        |
| <b>Faults – Interference</b> .....                | <b>12</b> |
| <b>Dimensions in mm</b> .....                     | <b>12</b> |
| <b>Technical details</b> .....                    | <b>13</b> |
| Safety characteristic data .....                  | 22        |
| <b>Supplementary data</b> .....                   | <b>23</b> |
| Service life graph .....                          | 23        |
| <b>Order reference</b> .....                      | <b>24</b> |
| Product .....                                     | 24        |
| Accessories .....                                 | 24        |

**EU/EC declaration of conformity ..... 24**

**UKCA-Declaration of Conformity ..... 24**

## Introduction

### Validity of documentation

This documentation is valid for the product PZA. 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 unit operates as a time delay device with delay-on energisation

- ▶ In accordance with EN ISO 14119 (release with delay through timer)
- ▶ In safety circuits in accordance with EN 60204-1

The unit is designed for use with

- ▶ Safety relays from the PNOZ series
- ▶ safety gate monitors from the PST series

The category that can be achieved in accordance with EN ISO 13849-1 depends on the category of the base unit. PZA may not exceed this.

**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](#) [ 13]).

**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:
  - 1 safety contact (N/O), delay-on energisation
  - 2 auxiliary contacts (N/C), delay-on energisation
- ▶ LED display for:
  - Supply voltage
  - Switch state safety output
- ▶ 12 time values, set via rotary switch
- ▶ Feedback loop for monitoring external contactors
- ▶ See order reference for unit types

## Safety features

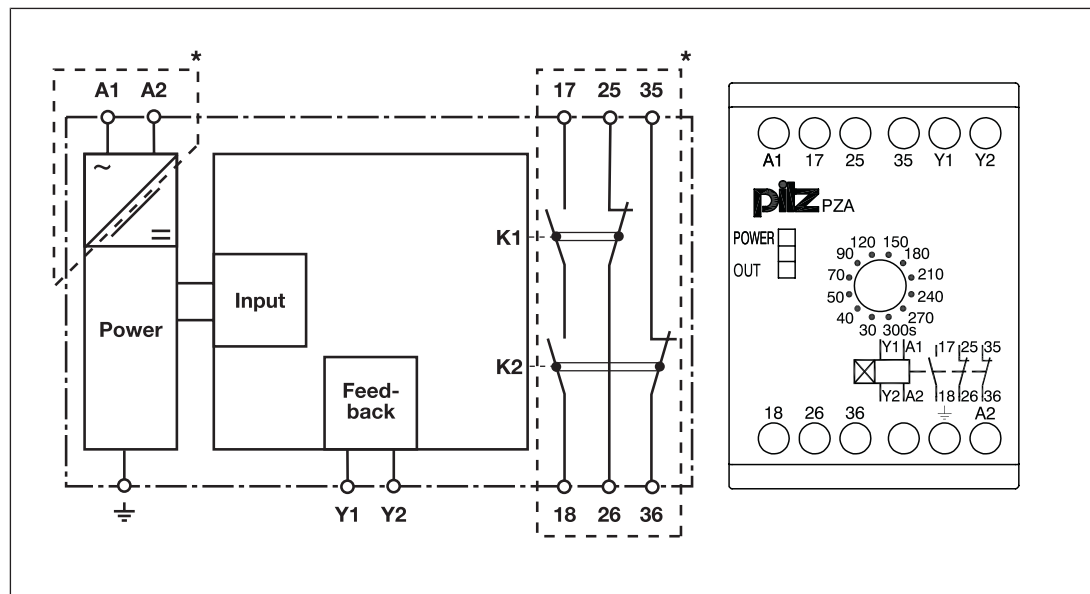
The relay meets the following safety requirements:

- ▶ 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

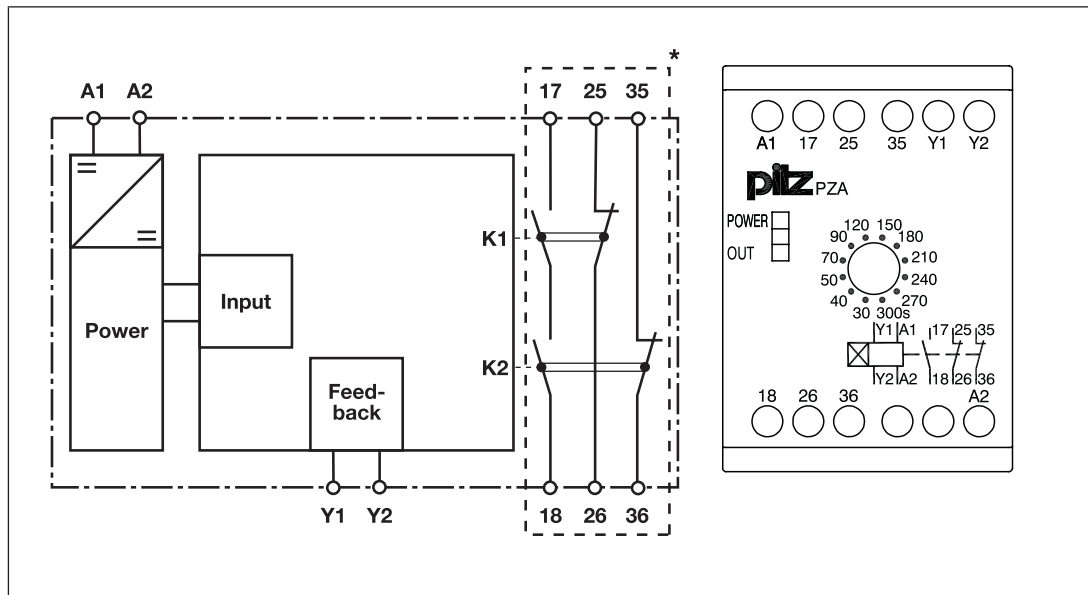
- ▶  $U_B$ : 230 VAC; Product ID 774026, 774040



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

**Types: DC**

►  $U_B$ : 24 VDC; Product ID 774028, 774029, 774030, 774041



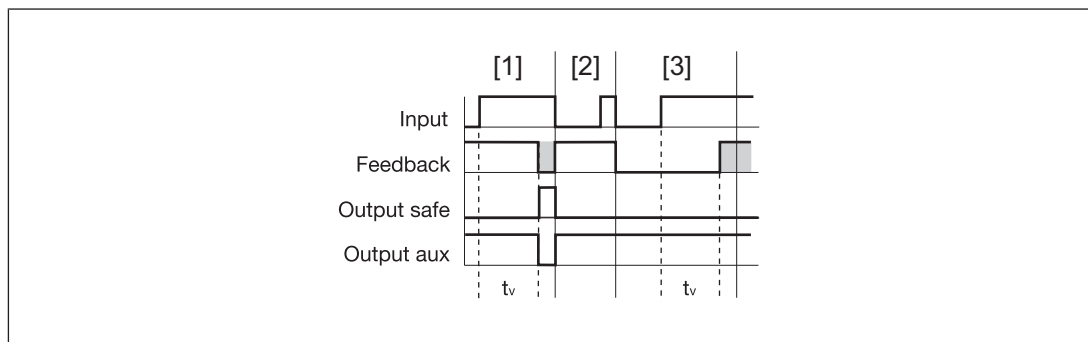
\*Insulation between the non-marked area and the relay contacts: Basic insulation (over-voltage category III), Protective separation (overvoltage category II)

**Function description**

The unit is ready for operation when the feedback loop Y1-Y2 is closed.

- Input circuit closed (supply voltage is present)  
"POWER" LED is illuminated. The safety contact 17-18 is closed and the auxiliary contacts 25-26, 35-36 will open once the set delay-on energisation has elapsed. The "OUT" LED is lit.
- The input circuit is opened (supply voltage is interrupted)  
The safety contact 17-18 is redundantly opened and the auxiliary contacts 25-26, 35-36 will close. The LEDs "POWER" and "OUT" go out.

The delay time can be set in 12 stages on the front of the unit using a screwdriver.

**Legend**

- Input: Input circuit
- Feedback: Feedback loop
- Output safe: Safety contact
- Output aux: Auxiliary contacts

- ▶  $t_v$ : Delay time

[1]: Normal operating cycle

[2]: Fault: Input circuit opened too early

[3]: Fault: Feedback loop closed too late after  $t_v$  elapsed



#### NOTICE

At the earliest the safety contacts close after the set delay time - 15% of the set value, even in the case of a component failure.

## 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](#) [ 13]" must be followed.
- ▶ The output 17-18 is a safety contact, outputs 25-26, 35-36 are auxiliary contacts (e.g. for display).
- ▶ Do **not** use auxiliary contacts 25-26, 35-36 for safety circuits!
- ▶ To prevent contact welding, a fuse should be connected before the output contacts (see [Technical details](#) [ 13]).
- ▶ Do not connect undesignated terminals.
- ▶ 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](#) [ 13])

$R_l / \text{km}$  = 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.
- ▶ In devices for 24 V DC shorts between the input circuit and feedback loop or earth faults in the feedback loop can damage the unit. We recommend the use of a short circuit-proof supply voltage with current limitation.

## Preparing for Operation

| Supply voltage                              | AC                               | DC                            |
|---------------------------------------------|----------------------------------|-------------------------------|
| Input circuit is driven by connecting $U_B$ |                                  |                               |
| Feedback loop                               | Without feedback loop monitoring | With feedback loop monitoring |
| Link or contacts from external contactors   |                                  |                               |

### Delay time

When you bring the rotary switch to the desired position, make sure that the rotary switch locks in position (click feel).

### Protection against manipulation

Attach the rotary switch using an adhesive seal (see [order reference](#) 24).

If the adhesive seal is broken, check the setting.

## 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 CL 3/PL d at least 1x per month
- ▶ for SIL CL 1/PL c 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**

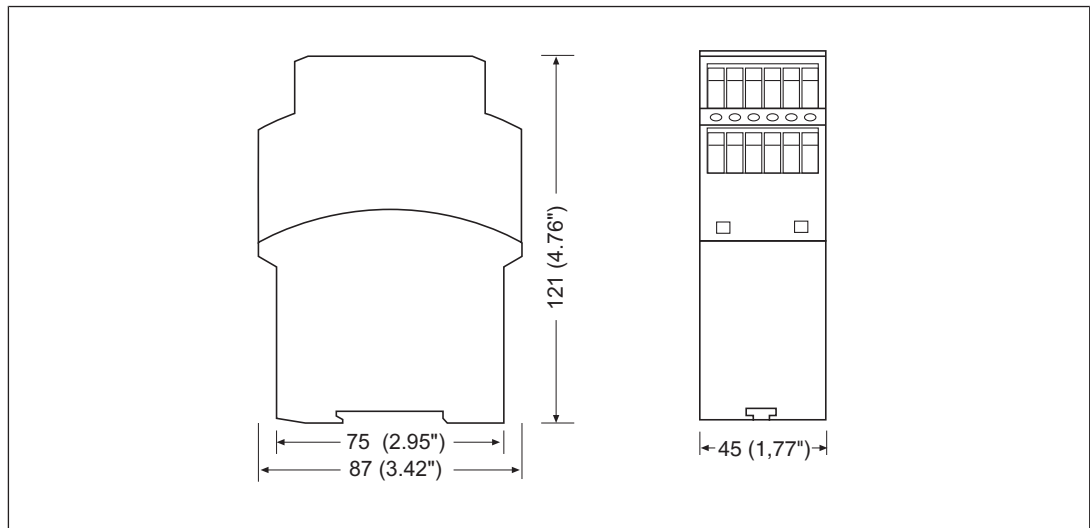
Supply voltage is present.

**OUT**

Safety contact is closed.

**Faults – Interference**

- ▶ LED "POWER" does not light: Short circuit or no supply voltage.
- ▶ If an error occurs in the time relay the safety contact remains open and the auxiliary contacts remain closed. The time value goes toward infinity.

**Dimensions in mm**

## Technical details

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

### Devices with delay time $t_v \leq 30$ s

Product ID 774030, 774040, 774041

| General                                   | 774030                                | 774040                                | 774041                                |
|-------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Certifications                            | CCC, CE, EAC, TÜV, UKCA, cULus Listed | CCC, CE, EAC, TÜV, UKCA, cULus Listed | CCC, CE, EAC, TÜV, UKCA, cULus Listed |
| Electrical data                           | 774030                                | 774040                                | 774041                                |
| Supply voltage                            |                                       |                                       |                                       |
| Voltage                                   | 24 V                                  | 230 V                                 | 24 V                                  |
| Kind                                      | DC                                    | AC                                    | DC                                    |
| Voltage tolerance                         | -15 %/+10 %                           | -15 %/+10 %                           | -15 %/+10 %                           |
| Output of external power supply (AC)      | —                                     | 4,5 VA                                | —                                     |
| Output of external power supply (DC)      | 3 W                                   | —                                     | 3 W                                   |
| Frequency range AC                        | —                                     | 50 - 60 Hz                            | —                                     |
| Residual ripple DC                        | 10 %                                  | —                                     | 10 %                                  |
| Duty cycle                                | 100 %                                 | 100 %                                 | 100 %                                 |
| External unit fuse protection F1 min.     | 1 A                                   | 1 A                                   | 1 A                                   |
| External unit fuse protection F1 max.     | Max. conductor cross section          | Max. conductor cross section          | Max. conductor cross section          |
| Inputs                                    | 774030                                | 774040                                | 774041                                |
| Voltage at                                |                                       |                                       |                                       |
| Feedback loop DC                          | 24 V                                  | 24 V                                  | 24 V                                  |
| Current at                                |                                       |                                       |                                       |
| Feedback loop DC                          | 50 mA                                 | 50 mA                                 | 50 mA                                 |
| Relay outputs                             | 774030                                | 774040                                | 774041                                |
| Number of output contacts                 |                                       |                                       |                                       |
| Safety contacts (N/O), delayed            | 1                                     | 1                                     | 1                                     |
| Auxiliary contacts (N/C), delayed         | 2                                     | 2                                     | 2                                     |
| Max. short circuit current I <sub>K</sub> | 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                          |

| <b>Relay outputs</b>                                 | <b>774030</b>                    | <b>774040</b>                    | <b>774041</b>                    |
|------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Utilisation category of safety contacts              |                                  |                                  |                                  |
| AC1 at                                               | <b>240 V</b>                     | <b>240 V</b>                     | <b>240 V</b>                     |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>1500 VA</b>                   | <b>1500 VA</b>                   | <b>1500 VA</b>                   |
| DC1 at                                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>150 W</b>                     | <b>150 W</b>                     | <b>150 W</b>                     |
| Utilisation category of auxiliary contacts           |                                  |                                  |                                  |
| AC1 at                                               | <b>240 V</b>                     | <b>240 V</b>                     | <b>240 V</b>                     |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>1500 VA</b>                   | <b>1500 VA</b>                   | <b>1500 VA</b>                   |
| DC1 at                                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>150 W</b>                     | <b>150 W</b>                     | <b>150 W</b>                     |
| Utilisation category in accordance with the standard | <b>EN 60947-5-1</b>              | <b>EN 60947-5-1</b>              | <b>EN 60947-5-1</b>              |
| Utilisation category of safety contacts              |                                  |                                  |                                  |
| AC15 at                                              | <b>230 V</b>                     | <b>230 V</b>                     | <b>230 V</b>                     |
| Max. current                                         | <b>4 A</b>                       | <b>4 A</b>                       | <b>4 A</b>                       |
| DC13 (6 cycles/min) at                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Max. current                                         | <b>3 A</b>                       | <b>3 A</b>                       | <b>3 A</b>                       |
| Utilisation category of auxiliary contacts           |                                  |                                  |                                  |
| AC15 at                                              | <b>230 V</b>                     | <b>230 V</b>                     | <b>230 V</b>                     |
| Max. current                                         | <b>4 A</b>                       | <b>4 A</b>                       | <b>4 A</b>                       |
| DC13 (6 cycles/min) at                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Max. current                                         | <b>3 A</b>                       | <b>3 A</b>                       | <b>3 A</b>                       |
| Utilisation category in accordance with UL           |                                  |                                  |                                  |
| Voltage with current                                 | <b>240 V AC G. P.<br/>6 A</b>    | <b>240 V AC G. P.<br/>6 A</b>    | <b>240 V AC G. P.<br/>6 A</b>    |
| Voltage with current                                 | <b>24 V DC Resistive<br/>5 A</b> | <b>24 V DC Resistive<br/>5 A</b> | <b>24 V DC Resistive<br/>5 A</b> |
| Pilot Duty                                           | <b>B300, R300</b>                | <b>B300, R300</b>                | <b>B300, R300</b>                |

| Relay outputs                                          | 774030                                                            | 774040                                                            | 774041                                                                           |
|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 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 A <sup>2</sup> s                                              | 240 A <sup>2</sup> s                                              | 240 A <sup>2</sup> s                                                             |
| Blow-out fuse, quick                                   | 6 A                                                               | 6 A                                                               | 6 A                                                                              |
| Blow-out fuse, slow                                    | 4 A                                                               | 4 A                                                               | 4 A                                                                              |
| Blow-out fuse, gG                                      | 6 A                                                               | 6 A                                                               | 6 A                                                                              |
| Circuit breaker 24V AC/DC, characteristic B/C          | 4 A                                                               | 4 A                                                               | 4 A                                                                              |
| External contact fuse protection, auxiliary contacts   |                                                                   |                                                                   |                                                                                  |
| Max. melting integral                                  | 240 A <sup>2</sup> s                                              | 240 A <sup>2</sup> s                                              | 240 A <sup>2</sup> s                                                             |
| Blow-out fuse, quick                                   | 6 A                                                               | 6 A                                                               | 6 A                                                                              |
| Blow-out fuse, slow                                    | 4 A                                                               | 4 A                                                               | 4 A                                                                              |
| Blow-out fuse, gG                                      | 6 A                                                               | 6 A                                                               | 6 A                                                                              |
| Circuit breaker, 24 V AC/DC, characteristic B/C        | 4 A                                                               | 4 A                                                               | 4 A                                                                              |
| Conventional thermal current                           | 6 A                                                               | 6 A                                                               | 6 A                                                                              |
| Contact material                                       | AgSnO <sub>2</sub> + 0,2 µm Au                                    | AgSnO <sub>2</sub> + 0,2 µm Au                                    | AgSnO <sub>2</sub> + 0,2 µm Au                                                   |
| Times                                                  | 774030                                                            | 774040                                                            | 774041                                                                           |
| Delay-on de-energisation                               |                                                                   |                                                                   |                                                                                  |
| with power failure typ.                                | 40 ms                                                             | 40 ms                                                             | 40 ms                                                                            |
| with power failure max.                                | 70 ms                                                             | 70 ms                                                             | 70 ms                                                                            |
| Recovery time at max. switching frequency 1/s          |                                                                   |                                                                   |                                                                                  |
| after power failure                                    | 80 ms                                                             | 80 ms                                                             | 80 ms                                                                            |
| Delay time tv                                          | 3 s, 4 s, 5 s, 7 s, 9 s, 12 s, 15 s, 18 s, 21 s, 24 s, 27 s, 30 s | 3 s, 4 s, 5 s, 7 s, 9 s, 12 s, 15 s, 18 s, 21 s, 24 s, 27 s, 30 s | 0,3 s, 0,4 s, 0,5 s, 0,7 s, 0,9 s, 1,2 s, 1,5 s, 1,8 s, 2,1 s, 2,4 s, 2,7 s, 3 s |
| Time accuracy                                          | -15% / +15% +50 ms                                                | -15% / +15% +50 ms                                                | -15% / +15% +50 ms                                                               |
| Repetition accuracy                                    | 2 %                                                               | 2 %                                                               | 2 %                                                                              |
| Min. delay time (operating mode delay-on energisation) | tv - 15 %                                                         | tv - 15 %                                                         | tv - 15 %                                                                        |
| Environmental data                                     | 774030                                                            | 774040                                                            | 774041                                                                           |
| 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                                                              |

| <b>Environmental data</b>                                                                           | <b>774030</b>                                   | <b>774040</b>                                   | <b>774041</b>                                   |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Condensation during operation                                                                       | <b>Not permitted</b>                            | <b>Not permitted</b>                            | <b>Not permitted</b>                            |
| EMC                                                                                                 | <b>EN 60947-5-1, EN 61000-6-2, EN 61326-3-1</b> | <b>EN 60947-5-1, EN 61000-6-2, EN 61326-3-1</b> | <b>EN 60947-5-1, EN 61000-6-2, EN 61326-3-1</b> |
| Vibration                                                                                           |                                                 |                                                 |                                                 |
| in accordance with the standard                                                                     | <b>EN 60068-2-6</b>                             | <b>EN 60068-2-6</b>                             | <b>EN 60068-2-6</b>                             |
| Frequency                                                                                           | <b>10 - 55 Hz</b>                               | <b>10 - 55 Hz</b>                               | <b>10 - 55 Hz</b>                               |
| Amplitude                                                                                           | <b>0,35 mm</b>                                  | <b>0,35 mm</b>                                  | <b>0,35 mm</b>                                  |
| Airgap creepage                                                                                     |                                                 |                                                 |                                                 |
| in accordance with the standard                                                                     | <b>EN 60947-1</b>                               | <b>EN 60947-1</b>                               | <b>EN 60947-1</b>                               |
| Overvoltage category                                                                                | <b>III / II</b>                                 | <b>III / II</b>                                 | <b>III / II</b>                                 |
| Pollution degree                                                                                    | <b>2</b>                                        | <b>2</b>                                        | <b>2</b>                                        |
| Rated insulation voltage                                                                            | <b>250 V</b>                                    | <b>250 V</b>                                    | <b>250 V</b>                                    |
| Rated impulse withstand voltage                                                                     | <b>4 kV</b>                                     | <b>4 kV</b>                                     | <b>4 kV</b>                                     |
| Protection type                                                                                     |                                                 |                                                 |                                                 |
| Housing                                                                                             | <b>IP40</b>                                     | <b>IP40</b>                                     | <b>IP40</b>                                     |
| Terminals                                                                                           | <b>IP20</b>                                     | <b>IP20</b>                                     | <b>IP20</b>                                     |
| Mounting area (e.g. control cabinet)                                                                | <b>IP54</b>                                     | <b>IP54</b>                                     | <b>IP54</b>                                     |
| <b>Mechanical data</b>                                                                              | <b>774030</b>                                   | <b>774040</b>                                   | <b>774041</b>                                   |
| Mounting position                                                                                   | <b>Any</b>                                      | <b>Any</b>                                      | <b>Any</b>                                      |
| Mechanical life                                                                                     | <b>10,000,000 cycles</b>                        | <b>10,000,000 cycles</b>                        | <b>10,000,000 cycles</b>                        |
| Material                                                                                            |                                                 |                                                 |                                                 |
| Bottom                                                                                              | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             |
| Front                                                                                               | <b>ABS UL 94 V0</b>                             | <b>ABS UL 94 V0</b>                             | <b>ABS UL 94 V0</b>                             |
| Top                                                                                                 | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             |
| Connection type                                                                                     | <b>Screw terminal</b>                           | <b>Screw terminal</b>                           | <b>Screw terminal</b>                           |
| Mounting type                                                                                       | <b>Fixed</b>                                    | <b>Fixed</b>                                    | <b>Fixed</b>                                    |
| Conductor cross section with screw terminals                                                        |                                                 |                                                 |                                                 |
| 1 core flexible                                                                                     | <b>0,2 - 4 mm<sup>2</sup>, 24 - 10 AWG</b>      | <b>0,2 - 4 mm<sup>2</sup>, 24 - 10 AWG</b>      | <b>0,2 - 4 mm<sup>2</sup>, 24 - 10 AWG</b>      |
| 2 core with the same cross section, flexible with crimp connectors, no plastic sleeve               | <b>0,2 - 2,5 mm<sup>2</sup>, 24 - 14 AWG</b>    | <b>0,2 - 2,5 mm<sup>2</sup>, 24 - 14 AWG</b>    | <b>0,2 - 2,5 mm<sup>2</sup>, 24 - 14 AWG</b>    |
| 2 core with the same cross section, flexible without crimp connectors or with TWIN crimp connectors | <b>0,2 - 2,5 mm<sup>2</sup>, 24 - 14 AWG</b>    | <b>0,2 - 2,5 mm<sup>2</sup>, 24 - 14 AWG</b>    | <b>0,2 - 2,5 mm<sup>2</sup>, 24 - 14 AWG</b>    |
| Torque setting with screw terminals                                                                 | <b>0,5 Nm</b>                                   | <b>0,5 Nm</b>                                   | <b>0,5 Nm</b>                                   |
| Stripping length with screw terminals                                                               | <b>6 mm</b>                                     | <b>6 mm</b>                                     | <b>6 mm</b>                                     |

| <b>Mechanical data</b> | <b>774030</b> | <b>774040</b> | <b>774041</b> |
|------------------------|---------------|---------------|---------------|
| Dimensions             |               |               |               |
| Height                 | <b>87 mm</b>  | <b>87 mm</b>  | <b>87 mm</b>  |
| Width                  | <b>45 mm</b>  | <b>45 mm</b>  | <b>45 mm</b>  |
| Depth                  | <b>121 mm</b> | <b>121 mm</b> | <b>121 mm</b> |
| Weight                 | <b>255 g</b>  | <b>350 g</b>  | <b>255 g</b>  |

**Devices with delay time  $t_v > 30$  s**

Product ID 774026, 774028, 774029

| <b>General</b>                        | <b>774026</b>                         | <b>774028</b>                         | <b>774029</b>                         |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Certifications                        | CCC, CE, EAC, TÜV, UKCA, cULus Listed | CCC, CE, EAC, TÜV, UKCA, cULus Listed | CCC, CE, EAC, TÜV, UKCA, cULus Listed |
| <b>Electrical data</b>                | <b>774026</b>                         | <b>774028</b>                         | <b>774029</b>                         |
| Supply voltage                        |                                       |                                       |                                       |
| Voltage                               | <b>230 V</b>                          | <b>24 V</b>                           | <b>24 V</b>                           |
| Kind                                  | <b>AC</b>                             | <b>DC</b>                             | <b>DC</b>                             |
| Voltage tolerance                     | <b>-15 %/+10 %</b>                    | <b>-15 %/+10 %</b>                    | <b>-15 %/+10 %</b>                    |
| Output of external power supply (AC)  | <b>4,5 VA</b>                         | —                                     | —                                     |
| Output of external power supply (DC)  | —                                     | <b>3 W</b>                            | <b>3 W</b>                            |
| Frequency range AC                    | <b>50 - 60 Hz</b>                     | —                                     | —                                     |
| Residual ripple DC                    | —                                     | <b>10 %</b>                           | <b>10 %</b>                           |
| Duty cycle                            | <b>100 %</b>                          | <b>100 %</b>                          | <b>100 %</b>                          |
| External unit fuse protection F1 min. | <b>1 A</b>                            | <b>1 A</b>                            | <b>1 A</b>                            |
| External unit fuse protection F1 max. | <b>Max. conductor cross section</b>   | <b>Max. conductor cross section</b>   | <b>Max. conductor cross section</b>   |
| <b>Inputs</b>                         | <b>774026</b>                         | <b>774028</b>                         | <b>774029</b>                         |
| Voltage at                            |                                       |                                       |                                       |
| Feedback loop DC                      | <b>24 V</b>                           | <b>24 V</b>                           | <b>24 V</b>                           |
| Current at                            |                                       |                                       |                                       |
| Feedback loop DC                      | <b>50 mA</b>                          | <b>50 mA</b>                          | <b>50 mA</b>                          |
| <b>Relay outputs</b>                  | <b>774026</b>                         | <b>774028</b>                         | <b>774029</b>                         |
| Number of output contacts             |                                       |                                       |                                       |
| Safety contacts (N/O), delayed        | <b>1</b>                              | <b>1</b>                              | <b>1</b>                              |
| Auxiliary contacts (N/C), delayed     | <b>2</b>                              | <b>2</b>                              | <b>2</b>                              |
| Max. short circuit current $I_K$      | <b>1 kA</b>                           | <b>1 kA</b>                           | <b>1 kA</b>                           |
| Utilisation category                  |                                       |                                       |                                       |
| in accordance with the standard       | <b>EN 60947-4-1</b>                   | <b>EN 60947-4-1</b>                   | <b>EN 60947-4-1</b>                   |

| <b>Relay outputs</b>                                 | <b>774026</b>                    | <b>774028</b>                    | <b>774029</b>                    |
|------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Utilisation category of safety contacts              |                                  |                                  |                                  |
| AC1 at                                               | <b>240 V</b>                     | <b>240 V</b>                     | <b>240 V</b>                     |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>1500 VA</b>                   | <b>1500 VA</b>                   | <b>1500 VA</b>                   |
| DC1 at                                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>150 W</b>                     | <b>150 W</b>                     | <b>150 W</b>                     |
| Utilisation category of auxiliary contacts           |                                  |                                  |                                  |
| AC1 at                                               | <b>240 V</b>                     | <b>240 V</b>                     | <b>240 V</b>                     |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>1500 VA</b>                   | <b>1500 VA</b>                   | <b>1500 VA</b>                   |
| DC1 at                                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Min. current                                         | <b>0,01 A</b>                    | <b>0,01 A</b>                    | <b>0,01 A</b>                    |
| Max. current                                         | <b>6 A</b>                       | <b>6 A</b>                       | <b>6 A</b>                       |
| Max. power                                           | <b>150 W</b>                     | <b>150 W</b>                     | <b>150 W</b>                     |
| Utilisation category in accordance with the standard |                                  |                                  |                                  |
|                                                      | <b>EN 60947-5-1</b>              | <b>EN 60947-5-1</b>              | <b>EN 60947-5-1</b>              |
| Utilisation category of safety contacts              |                                  |                                  |                                  |
| AC15 at                                              | <b>230 V</b>                     | <b>230 V</b>                     | <b>230 V</b>                     |
| Max. current                                         | <b>4 A</b>                       | <b>4 A</b>                       | <b>4 A</b>                       |
| DC13 (6 cycles/min) at                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Max. current                                         | <b>3 A</b>                       | <b>3 A</b>                       | <b>3 A</b>                       |
| Utilisation category of auxiliary contacts           |                                  |                                  |                                  |
| AC15 at                                              | <b>230 V</b>                     | <b>230 V</b>                     | <b>230 V</b>                     |
| Max. current                                         | <b>4 A</b>                       | <b>4 A</b>                       | <b>4 A</b>                       |
| DC13 (6 cycles/min) at                               | <b>24 V</b>                      | <b>24 V</b>                      | <b>24 V</b>                      |
| Max. current                                         | <b>3 A</b>                       | <b>3 A</b>                       | <b>3 A</b>                       |
| Utilisation category in accordance with UL           |                                  |                                  |                                  |
| Voltage with current                                 | <b>240 V AC G. P.<br/>6 A</b>    | <b>240 V AC G. P.<br/>6 A</b>    | <b>240 V AC G. P.<br/>6 A</b>    |
| Voltage with current                                 | <b>24 V DC Resistive<br/>5 A</b> | <b>24 V DC Resistive<br/>5 A</b> | <b>24 V DC Resistive<br/>5 A</b> |
| Pilot Duty                                           | <b>B300, R300</b>                | <b>B300, R300</b>                | <b>B300, R300</b>                |

| Relay outputs                                          | 774026                                                                        | 774028                                                                           | 774029                                                                        |
|--------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 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 A <sup>2</sup> s                                                          | 240 A <sup>2</sup> s                                                             | 240 A <sup>2</sup> s                                                          |
| Blow-out fuse, quick                                   | 6 A                                                                           | 6 A                                                                              | 6 A                                                                           |
| Blow-out fuse, slow                                    | 4 A                                                                           | 4 A                                                                              | 4 A                                                                           |
| Blow-out fuse, gG                                      | 6 A                                                                           | 6 A                                                                              | 6 A                                                                           |
| Circuit breaker 24V AC/DC, characteristic B/C          | 4 A                                                                           | 4 A                                                                              | 4 A                                                                           |
| External contact fuse protection, auxiliary contacts   |                                                                               |                                                                                  |                                                                               |
| Max. melting integral                                  | 240 A <sup>2</sup> s                                                          | 240 A <sup>2</sup> s                                                             | 240 A <sup>2</sup> s                                                          |
| Blow-out fuse, quick                                   | 6 A                                                                           | 6 A                                                                              | 6 A                                                                           |
| Blow-out fuse, slow                                    | 4 A                                                                           | 4 A                                                                              | 4 A                                                                           |
| Blow-out fuse, gG                                      | 6 A                                                                           | 6 A                                                                              | 6 A                                                                           |
| Circuit breaker, 24 V AC/DC, characteristic B/C        | 4 A                                                                           | 4 A                                                                              | 4 A                                                                           |
| Conventional thermal current                           | 6 A                                                                           | 6 A                                                                              | 6 A                                                                           |
| Contact material                                       | AgSnO <sub>2</sub> + 0,2 µm Au                                                | AgSnO <sub>2</sub> + 0,2 µm Au                                                   | AgSnO <sub>2</sub> + 0,2 µm Au                                                |
| Times                                                  | 774026                                                                        | 774028                                                                           | 774029                                                                        |
| Delay-on de-energisation                               |                                                                               |                                                                                  |                                                                               |
| with power failure typ.                                | 40 ms                                                                         | 40 ms                                                                            | 40 ms                                                                         |
| with power failure max.                                | 70 ms                                                                         | 70 ms                                                                            | 70 ms                                                                         |
| Recovery time at max. switching frequency 1/s          |                                                                               |                                                                                  |                                                                               |
| after power failure                                    | 80 ms                                                                         | 80 ms                                                                            | 80 ms                                                                         |
| Delay time tv                                          | 30 s, 40 s, 50 s, 70 s, 90 s, 120 s, 150 s, 180 s, 210 s, 240 s, 270 s, 300 s | 60 s, 80 s, 100 s, 140 s, 180 s, 240 s, 300 s, 360 s, 420 s, 480 s, 540 s, 600 s | 30 s, 40 s, 50 s, 70 s, 90 s, 120 s, 150 s, 180 s, 210 s, 240 s, 270 s, 300 s |
| Time accuracy                                          | -15% / +15% +50 ms                                                            | -15% / +15% +50 ms                                                               | -15% / +15% +50 ms                                                            |
| Repetition accuracy                                    | 2 %                                                                           | 2 %                                                                              | 2 %                                                                           |
| Min. delay time (operating mode delay-on energisation) | tv - 15 %                                                                     | tv - 15 %                                                                        | tv - 15 %                                                                     |
| Environmental data                                     | 774026                                                                        | 774028                                                                           | 774029                                                                        |
| 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                                                           |

| <b>Environmental data</b>                                                                           | <b>774026</b>                                   | <b>774028</b>                                   | <b>774029</b>                                   |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Condensation during operation                                                                       | <b>Not permitted</b>                            | <b>Not permitted</b>                            | <b>Not permitted</b>                            |
| EMC                                                                                                 | <b>EN 60947-5-1, EN 61000-6-2, EN 61326-3-1</b> | <b>EN 60947-5-1, EN 61000-6-2, EN 61326-3-1</b> | <b>EN 60947-5-1, EN 61000-6-2, EN 61326-3-1</b> |
| Vibration                                                                                           |                                                 |                                                 |                                                 |
| in accordance with the standard                                                                     | <b>EN 60068-2-6</b>                             | <b>EN 60068-2-6</b>                             | <b>EN 60068-2-6</b>                             |
| Frequency                                                                                           | <b>10 - 55 Hz</b>                               | <b>10 - 55 Hz</b>                               | <b>10 - 55 Hz</b>                               |
| Amplitude                                                                                           | <b>0,35 mm</b>                                  | <b>0,35 mm</b>                                  | <b>0,35 mm</b>                                  |
| Airgap creepage                                                                                     |                                                 |                                                 |                                                 |
| in accordance with the standard                                                                     | <b>EN 60947-1</b>                               | <b>EN 60947-1</b>                               | <b>EN 60947-1</b>                               |
| Overvoltage category                                                                                | <b>III / II</b>                                 | <b>III / II</b>                                 | <b>III / II</b>                                 |
| Pollution degree                                                                                    | <b>2</b>                                        | <b>2</b>                                        | <b>2</b>                                        |
| Rated insulation voltage                                                                            | <b>250 V</b>                                    | <b>250 V</b>                                    | <b>250 V</b>                                    |
| Rated impulse withstand voltage                                                                     | <b>4 kV</b>                                     | <b>4 kV</b>                                     | <b>4 kV</b>                                     |
| Protection type                                                                                     |                                                 |                                                 |                                                 |
| Housing                                                                                             | <b>IP40</b>                                     | <b>IP40</b>                                     | <b>IP40</b>                                     |
| Terminals                                                                                           | <b>IP20</b>                                     | <b>IP20</b>                                     | <b>IP20</b>                                     |
| Mounting area (e.g. control cabinet)                                                                | <b>IP54</b>                                     | <b>IP54</b>                                     | <b>IP54</b>                                     |
| <b>Mechanical data</b>                                                                              | <b>774026</b>                                   | <b>774028</b>                                   | <b>774029</b>                                   |
| Mounting position                                                                                   | <b>Any</b>                                      | <b>Any</b>                                      | <b>Any</b>                                      |
| Mechanical life                                                                                     | <b>10,000,000 cycles</b>                        | <b>10,000,000 cycles</b>                        | <b>10,000,000 cycles</b>                        |
| Material                                                                                            |                                                 |                                                 |                                                 |
| Bottom                                                                                              | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             |
| Front                                                                                               | <b>ABS UL 94 V0</b>                             | <b>ABS UL 94 V0</b>                             | <b>ABS UL 94 V0</b>                             |
| Top                                                                                                 | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             | <b>PPO UL 94 V1</b>                             |
| Connection type                                                                                     | <b>Screw terminal</b>                           | <b>Screw terminal</b>                           | <b>Screw terminal</b>                           |
| Mounting type                                                                                       | <b>Fixed</b>                                    | <b>Fixed</b>                                    | <b>Fixed</b>                                    |
| Conductor cross section with screw terminals                                                        |                                                 |                                                 |                                                 |
| 1 core flexible                                                                                     | <b>0,2 - 4 mm², 24 - 10 AWG</b>                 | <b>0,2 - 4 mm², 24 - 10 AWG</b>                 | <b>0,2 - 4 mm², 24 - 10 AWG</b>                 |
| 2 core with the same cross section, flexible with crimp connectors, no plastic sleeve               | <b>0,2 - 2,5 mm², 24 - 14 AWG</b>               | <b>0,2 - 2,5 mm², 24 - 14 AWG</b>               | <b>0,2 - 2,5 mm², 24 - 14 AWG</b>               |
| 2 core with the same cross section, flexible without crimp connectors or with TWIN crimp connectors | <b>0,2 - 2,5 mm², 24 - 14 AWG</b>               | <b>0,2 - 2,5 mm², 24 - 14 AWG</b>               | <b>0,2 - 2,5 mm², 24 - 14 AWG</b>               |
| Torque setting with screw terminals                                                                 | <b>0,5 Nm</b>                                   | <b>0,5 Nm</b>                                   | <b>0,5 Nm</b>                                   |
| Stripping length with screw terminals                                                               | <b>6 mm</b>                                     | <b>6 mm</b>                                     | <b>6 mm</b>                                     |

| Mechanical data | 774026 | 774028 | 774029 |
|-----------------|--------|--------|--------|
| Dimensions      |        |        |        |
| Height          | 87 mm  | 87 mm  | 87 mm  |
| Width           | 45 mm  | 45 mm  | 45 mm  |
| Depth           | 121 mm | 121 mm | 121 mm |
| Weight          | 350 g  | 255 g  | 255 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 <sub>M</sub> [year] |

Safety contacts,  
delayed <30 s

|      |        |       |          |       |          |    |
|------|--------|-------|----------|-------|----------|----|
| PL d | Cat. 3 | SIL 3 | 2,64E-09 | SIL 3 | 1,26E-05 | 20 |
|------|--------|-------|----------|-------|----------|----|

Safety contacts,  
delayed ≥30 s

|      |        |       |          |       |          |    |
|------|--------|-------|----------|-------|----------|----|
| PL c | Cat. 1 | SIL 1 | 2,87E-09 | SIL 2 | 4,64E-05 | 20 |
|------|--------|-------|----------|-------|----------|----|

Explanatory notes for the safety-related characteristic data:

- T<sub>M</sub> 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



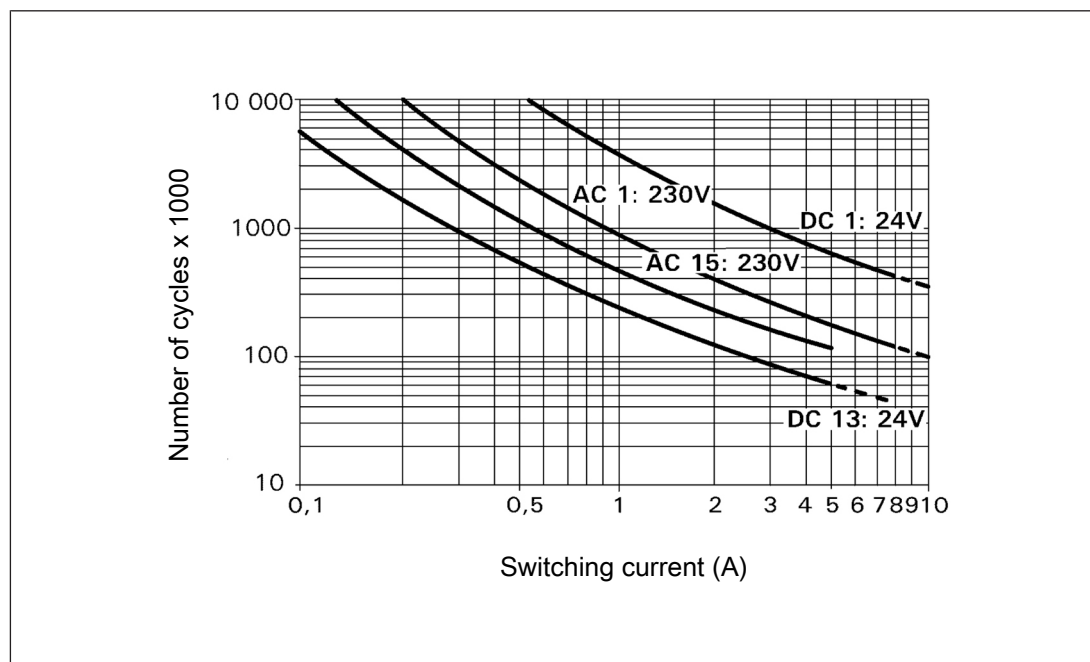
### CAUTION!

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

| Product type | Features                               | Connection type | Product ID |
|--------------|----------------------------------------|-----------------|------------|
| PZA          | 230 VAC; Delay: selectable up to 300 s | Screw terminals | 774026     |
| PZA          | 230 VAC; Delay: selectable up to 30 s  | Screw terminals | 774040     |
| PZA          | 24 VDC; Delay: selectable up to 600 s  | Screw terminals | 774028     |
| PZA          | 24 VDC; Delay: selectable up to 300 s  | Screw terminals | 774029     |
| PZA          | 24 VDC; Delay: selectable up to 30 s   | Screw terminals | 774030     |
| PZA          | 24 VDC; Delay: selectable up to 3 s    | Screw terminals | 774041     |

### Accessories

| Product type                         | Features                                                                     | Product ID |
|--------------------------------------|------------------------------------------------------------------------------|------------|
| Adhesive seal for myPNOZ (20 pieces) | Adhesive seal for myPNOZ to protect rotary switch settings from manipulation | 2A000200   |

## 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](http://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](http://www.pilz.com/manuals).

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

# Support

Technical support is available from Pilz round the clock.

## Americas

### Brazil

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### Mexico

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### USA (toll-free)

+1 877-PILZUSA (745-9872)

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### China

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### Japan

+81 45 471-2281

### South Korea

+82 31 778 3390

## Australia and Oceania

### Australia

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### New Zealand

+64 9 6345350

## Europe

### Austria

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### 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

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## The Netherlands

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

+49 711 3409-222

support@pilz.com

## 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](http://www.pilz.com/psirt)

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We are represented internationally. Please refer to our homepage [www.pilz.com](http://www.pilz.com) for further details or contact our headquarters.

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