

## Instantaneous PZE X5



Expander module in accordance with VDE 0113, EN 60 204-1 and IEC 204-1 for increasing the number of safety contacts available.

### Features

- Redundant design
- Dual-channel operation with short-circuit detection possible

### Approvals

	PZE X5
	●
	●
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Technical details	PZE X5
<b>Electrical data</b>	
Supply voltage	24 VDC
Tolerance	85 ... 110 %
Power consumption	Approx. 3 W
Total current	Max. 22.5 A
Switching capability in accordance with EN 60947-4-1, 02/01	AC1: 240 V/8 A/2000 VA DC1: 24 V/8 A/200 W AC15: 230 V/5 A; DC13: 24 V/7 A
EN 60947-5-1, 11/97 (DC13: 6 switching cycles/min)	
Output contacts	5 safety contacts (N/O),
Contact fuse protection to EN 60947-5-1, 11/97	6 A quick or 4 A slow
<b>Times</b>	
Delay-on energisation	Approx. 30 ms
Delay-on de-energisation	Approx. 30 ms
<b>Mechanical data</b>	
Max. cross-section of external conductor	2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup> Single-core or multi-core conductor with crimp connector
Dimensions (H x W x D)	87 x 45 x 122 mm
Weight	370 g

### Description

- 45 mm P-97 housing, DIN-Rail mounting
- Positive-guided relay outputs: 5 safety contacts (N/O)
- LED indicators for switching status, channel 1/2 and supply voltage
- Connection for feedback control loop

### Function Description

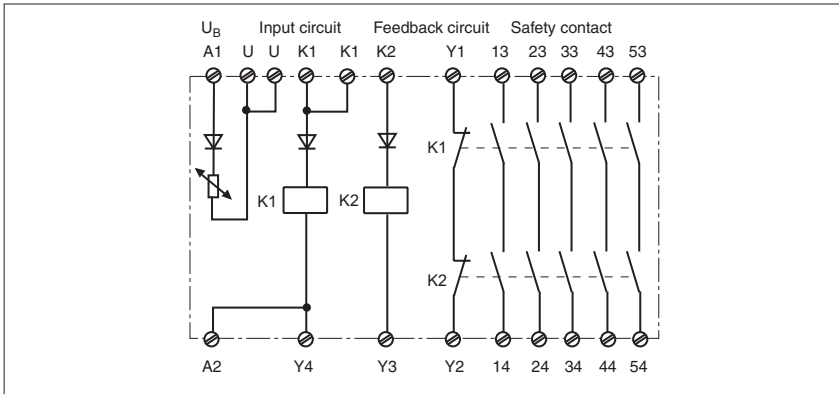
PZE X5 can be used to increase the number of safety contacts on:

- emergency stop relays
- safety gate monitors
- two-hand control relays

All base units must have a feedback control loop.

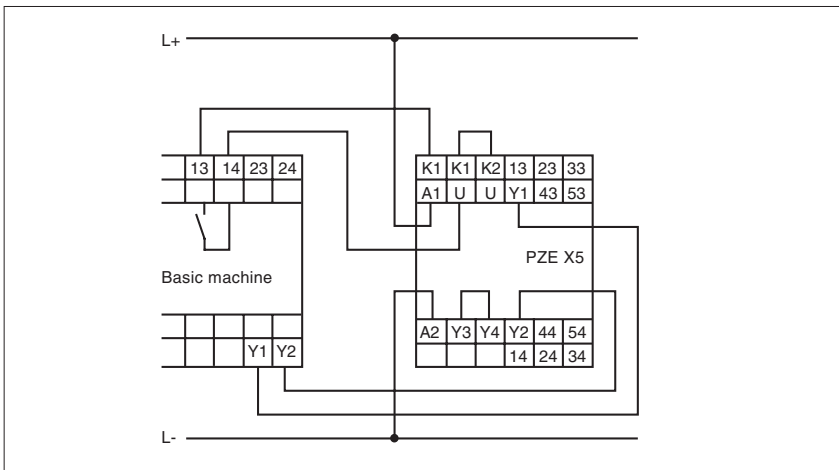
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### Internal wiring diagram

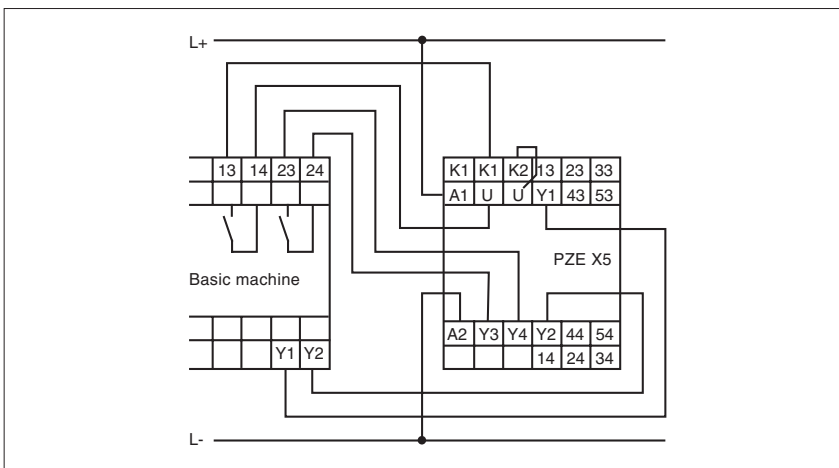


### External wiring

- Example 1  
Single-channel operation



- Example 2  
Dual-channel operation with short-circuit detection



## Instantaneous PZE X5

### General Technical Data

Unless stated otherwise in the technical details for the specific unit

#### Electrical Data

Frequency Range AC	50 ... 60 Hz
Residual Ripple DC	160 %
Contact Material	AgSnO <sub>2</sub>
Continuous Duty	100 %

#### Environmental Data

EMC	EN 50081-1, 01/92, EN 61000-6-2, 03/00
Vibration in accordance with EN 60068-2-6, 01/00	Frequency: 10 ... 55 Hz, Amplitude: 0.35 mm
Climatic Suitability	DIN IEC 60068-2-3, 12/86
Airgap Creepage	DIN VDE 0110 part 1, 04/97
Ambient Temperature	-10 ... +55 °C
Storage Temperature	-40 ... +85 °C

#### Mechanical Data

Torque Setting on Connection Terminals	0.6 Nm (screws)
Mounting Position	Any
Housing Material	Thermoplast Noryl SE 100
Protection	Mounting: IP 54 Housing: IP 40 Terminal Range: IP 20

The units were tested in accordance with the relevant standards current at the time of development.

### Order References

Type	U <sub>B</sub>	Order No.
PZE X5	24 DC	774 595