

Instantaneous PZE 9



Expander module in accordance with VDE 0113-1, 11/98, EN 60204-1, 12/97 and IEC 204-1, 11/98 to increase the number of safety contacts available.

Features

- Diverse
- Dual-channel operation with short circuit detection possible

Approvals

	PZE 9
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Technical Details	PZE 9
Electrical Data	
Supply Voltage	AC: 24, 42, 48, 110, 120, 230, 240 V DC: 24 V
Tolerance	85 ... 110 %
Power Consumption	Approx. 3 W/10.5 VA
Total Current	Max. 40 A
Switching Capabiltiy in accordance with EN 60947-4-1, 10/91	AC1: 240 V/8 A/2000 VA 400 V/5A/2000 VA DC1: 24 V/8 A/200 W AC15: 230 V/5 A; DC13: 24 V/7 A
EN 60947-5-1, 10/91 (DC13: 6 cycles/min.)	
Output Contacts	8 safety contacts (N/O), 1 auxiliary contact (N/C)
Contact Fuse Protection (EN 60947-5-1, 10/91)	10 A quick or 6 A slow
Times	
Delay-on Energisation	Approx. 30 ms
Delay-on De-energisation	Approx. 50 ms
Mechanical Data	
Maximum Cross Section of External Conductors	1 x 2.5 mm ² or 2 x 1.5 mm ² Single-core or multi-core with crimp connectors
Dimensions (H x W x D)	87 x 90 x 121 mm
Weight	AC: 680 g, DC: 500 g

Description

- 90 mm, P-93 housing, DIN-Rail mounting
- Relay outputs, positive-guided:
 - 8 safety contacts (N/O)
 - 1 auxiliary contact (N/C)
- LEDs for power, channel 1 and channel 2
- Connection for feedback control loop.

Function Description

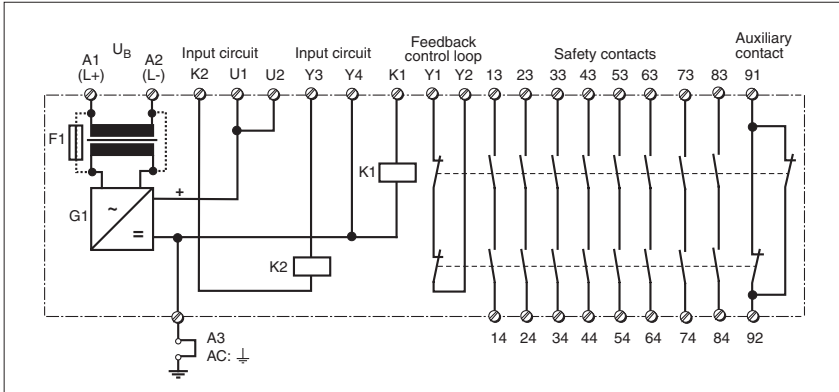
PZE 9 is used to increase the number of safety contacts available on

- E-STOP relays
- Safety gate monitors
- Two-hand relays

All base units must have a feedback control loop.

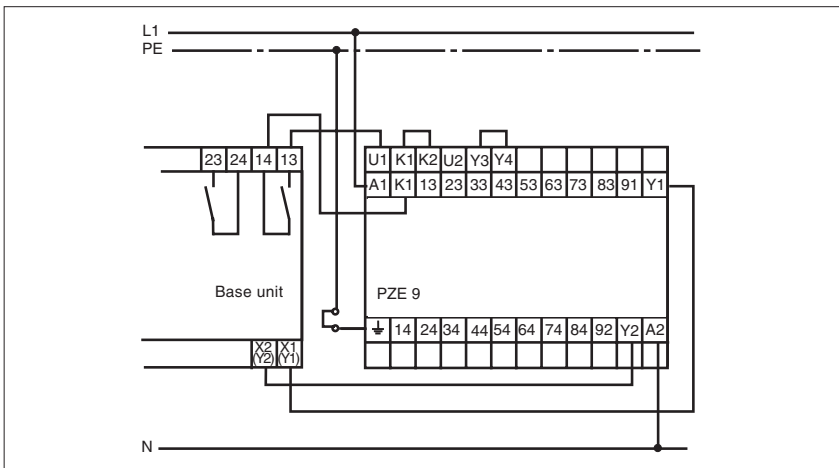
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Internal Wiring Diagram

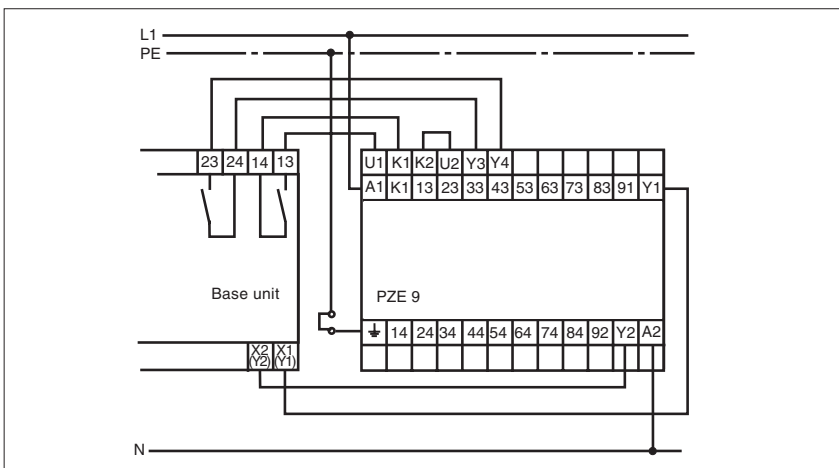


External Wiring

- Example 1
Single-channel operation



- Example 2
Dual-channel operation with
short circuit detection



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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 ₂
Continuous Duty	100 %

Environmental Data

EMC	EN 50081-1, 01/92, EN 50082-2, 03/95
Vibration in accordance with EN 60068-2-6, 04/95	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 _B	Order No.
PZE 9	24 V DC	774 150
PZE 9	24 V AC	774 140
PZE 9	42 V AC	774 141
PZE 9	48 V AC	774 142
PZE 9	110 V AC	774 143
PZE 9	120 V AC	774 144
PZE 9	230 V AC	774 148
PZE 9	240 V AC	774 149