

Delayed PZE 5V



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

- Delay-on de-energisation can be set via the rotary switch
- Delay-on de-energisation is effective after power failure

Approvals

	PZE 5V
	●
	●
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Technical Details PZE 5V

Electrical Data

Supply Voltage AC: 24, 42, 110, 120, 230, 240 V
DC: 24 V

Tolerance 85 ... 110 %

Power Consumption Approx. 3.5 W/5 VA

Residual Ripple DC 20 %

Total Current max. 40 A

Switching Capability in accordance with EN 60947-4-1, 10/91

AC1: 240 V/8 A/2000 VA

400 V/5 A/2000 VA

DC1: 24 V/8 A/200 W

AC15: 230 V/5 A; DC13: 24 V/7A

EN 60947-5-1, 10/91

(DC13: 6 cycles/min.)

Output Contacts 4 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

Time range 0.5 ... 3 s

AC: 0.2/0.4/0.8/1.2 s

DC: 0.08/0.15/0.3/0.45 s

Time Range 2 ... 8 s

AC: 1/2/3/4 s

DC: 0.33/0.66/1/1.3 s

Delay-on De-energisation

Time range 0.5 ... 3 s

0.5/1/2/3 s

Time range 2 ... 8 s

2/4/6/8 s

Recovery Time

Delay-on de-energisation + delay-on energisation

Mechanical Data

Torque Setting on Connection Terminals 1.2 Nm (screws)

Maximum Cross Section of

2 x 2.5 mm²

External conductors

Single-core or multi-core with crimp connectors

Dimensions (H x W x D)

87 x 135 x 110 mm

Weight

Range 0.5 ... 3 s

AC: 670 g, DC: 570 g

Range 2 ... 8 s

AC: 720 g, DC: 620 g

Description

- 135 mm, P-75 housing, DIN-Rail mounting
- Positive-guided relay outputs:
 - 4 safety contacts (N/O)
 - 1 auxiliary contact (N/C)
- Connection for feedback control loop
- Delay-on energisation and delay-on de-energisation can be programmed
- Single or dual-channel operation
- 2 versions available with different time ranges.

Function Description

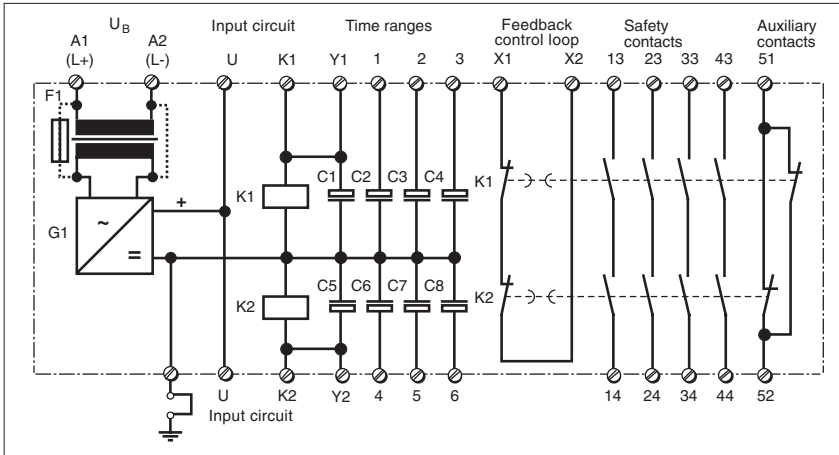
PZE 5V is used to increase the number of safety contacts available and the timed delay switching of an E-STOP command for

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

All base units must have a feedback control loop.

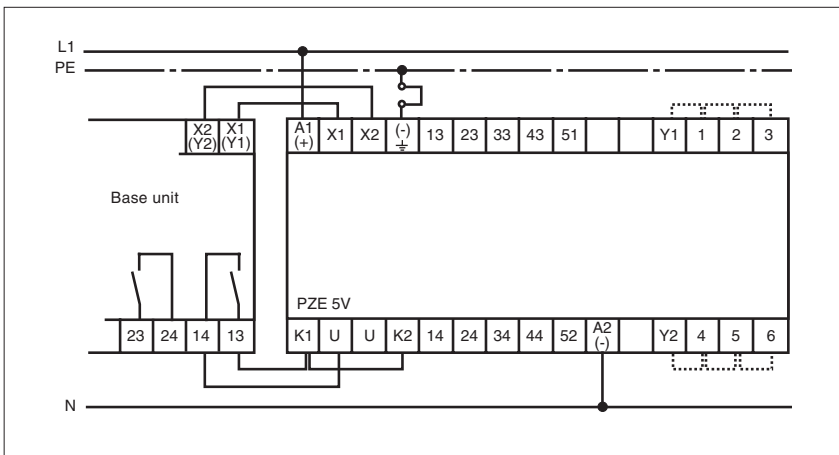
Delayed PZE 5V

Internal Wiring Diagram

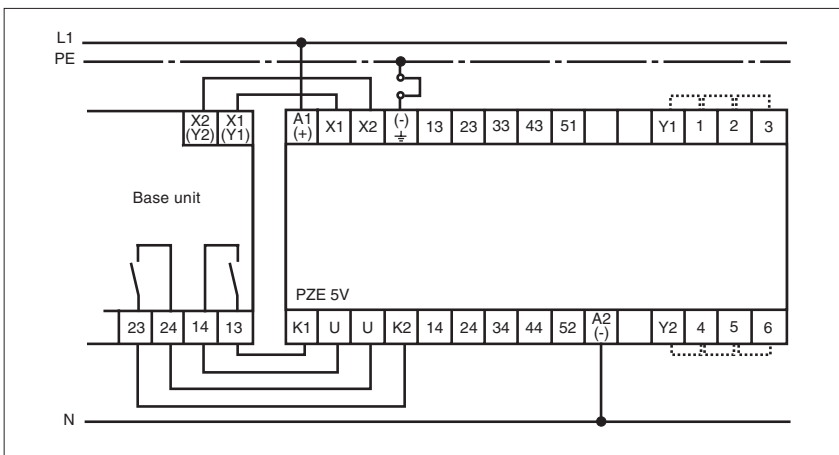


External Wiring

- Example 1
Single-channel operation



- Example 2
Dual-channel operation



Delayed PZE 5V

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	t	U _B	Order No.
PZE 5V	3 s	24 V DC	474 965
PZE 5V	3 s	24 V AC	474 950
PZE 5V	3 s	42 V AC	474 951
PZE 5V	3 s	110 V AC	474 954
PZE 5V	3 s	120 V AC	474 956
PZE 5V	3 s	230 V AC	474 958
PZE 5V	3 s	240 V AC	474 959
PZE 5V	8 s	24 V DC	474 985
PZE 5V	8 s	24 V AC	474 970
PZE 5V	8 s	42 V AC	474 971
PZE 5V	8 s	110 V AC	474 974
PZE 5V	8 s	230 V AC	474 978
PZE 5V	8 s	240 V AC	474 979