

Delayed PZE 3V



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 not effective after power failure

Approvals

	PZE 3V
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	pending
	pending

Technical Details	PZE 3V
Electrical Data	
Supply Voltage	AC: 24, 48, 110, 120, 230, 240 V DC: 24 V
Tolerance	85 ... 110 %
Power Consumption	Approx. 3.5 W/5 VA
Switching Capability in accordance with EN 60947-4-1, 10/91	AC1: 240 V/6 A/1500 VA DC1: 24 V/6 A/150 W AC15: 230 V/4 A; DC13: 24 V/3A
EN 60947-5-1, 10/91 (DC13: 6 cycles/min.)	
Output Contacts	2 safety contacts (N/O), 1 auxiliary contact (N/C)
Contact Fuse Protection (EN 60947-5-1, 10/91)	6 A quick or 4 A slow
Times	
Delay-on Energisation	AC: approx. 75 ms, DC: approx. 20 ms
Delay-on De-energisation (range 0 ... 22 s)	0/2/4/6/8/10/12/14/16/18/20/22 s
Recovery Time	Approx. 1.5 s
Mechanical Data	
Torque Setting on Connection Terminals	1.2 Nm (screws)
Maximum Cross Section of External Conductors	2 x 2.5 mm ² Single-core or multi-core with crimp connectors
Dimensions (H x W x D)	87 x 90 x 110 mm
Weight	AC: 520 g, DC: 470 g

Description

- 90 mm, P-75 housing, DIN-Rail mounting
- Positive-guided relay outputs, delay-off:
 - 2 safety contacts (N/O)
 - 1 auxiliary contact (N/C)
- LEDs for channel 1 and channel 2
- Connection for feedback control loop.

Function Description

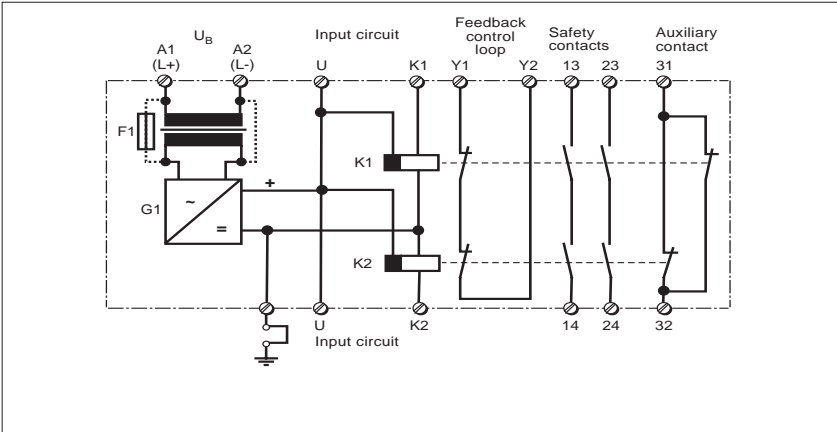
PZE 3V is used to increase the number of safety contacts available and the timed delay switching of an E-STOP command for

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

All base units must have a feedback control loop.

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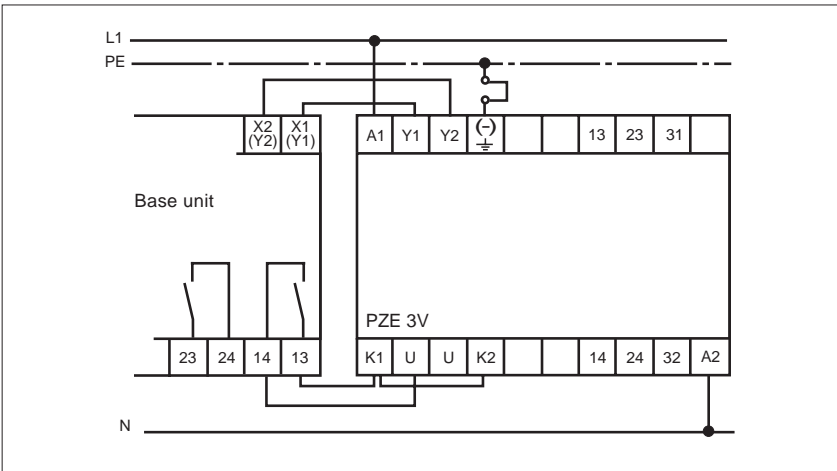
Internal Wiring Diagram



External Wiring

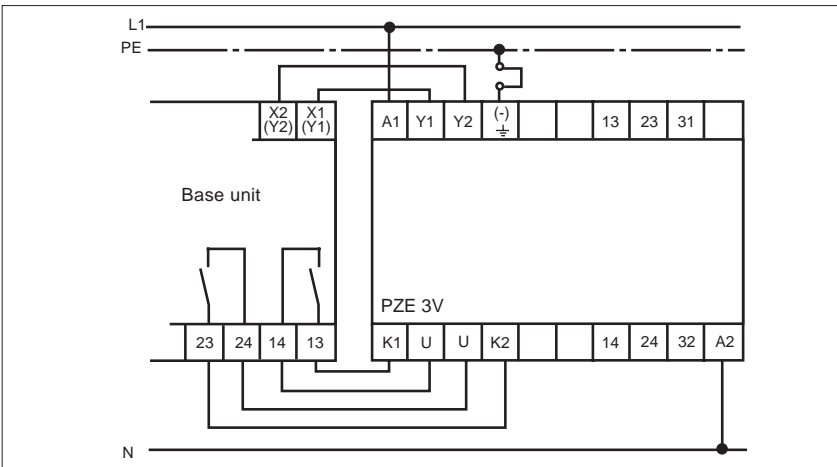
- Example 1

Single-channel operation



- Example 2

Dual-channel operation



Delayed PZE 3V

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 3V	22 s	24 V DC	474 200
PZE 3V	22 s	24 V AC	474 202
PZE 3V	22 s	48 V AC	474 206
PZE 3V	22 s	110 V AC	474 210
PZE 3V	22 s	120 V AC	474 214
PZE 3V	22 s	230 V AC	474 218
PZE 3V	22 s	240 V AC	474 220