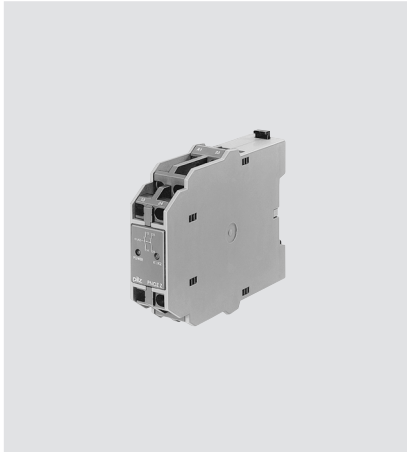


Category 2, EN 954-1 PNOZ Z



Emergency stop relay in accordance with VDE 0113, EN 60 204-1 and IEC 204-1.

Features

- Single-channel drive
- Supply voltage: 24 VAC/DC
- 2 N/O
- 22.5 mm width

Approvals

	PNOZ Z
	●
	●
	●
	●

Technical Details	PNOZ Z
Electrical Data	
Supply Voltage	AC: 24 V DC: 24 V
Tolerance	85 ... 110 %
Power Consumption U_B	Approx. 2 VA/2 W
Voltage and Current at the Input and, Reset Circuit and Feedback Control Loop	24 VDC, 50 mA
Switching Capability in accordance with EN 60 947-4-1	AC1: 240 V/5 A/1200 VA DC1: 24 V/4 A/120 W
EN 60 947-5-1 (DC13: 6 cycles/min.)	AC15: 230 V/2 A; DC13: 24 V/4 A
Output Contacts	2 safety contacts (N/O)
Contact Fuse Protection (EN 60 947-5-1)	6 A quick or 4 A slow
Times	
Delay-on Energisation	Max. 100 ms
Delay-on De-energisation	Max. 70 ms
Recovery Time	Approx. 1 s
Max. Supply Interruption before De-energisation	Approx. 10 ms
Mechanical Data	
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)	75 x 22.5 x 105 mm
Weight	270 g

Description

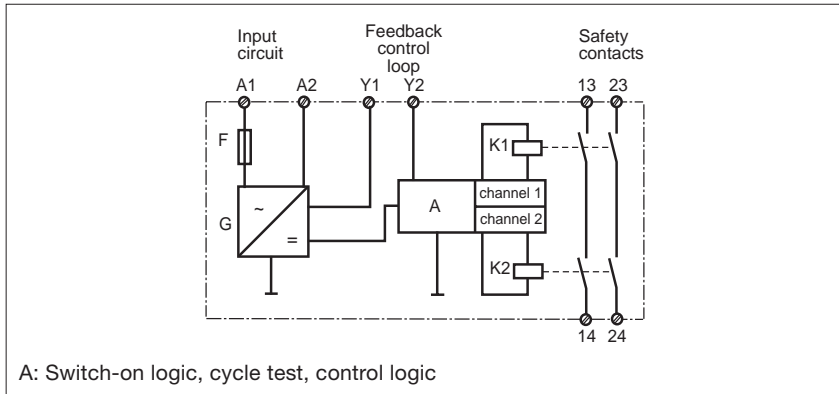
- 22.5 mm, Z-80 housing, DIN Rail mounting
- Positive-guided relay outputs:
 - 2 safety contacts (N/O)
- Connections for
 - E-STOP button
 - reset button
- LEDs for switch status and power
- Increase in the number of safety contacts available by connecting expander modules.

Operating Modes

- Single-channel operation
- Automatic reset
- Manual reset

Category 2, EN 954-1 PNOZ Z

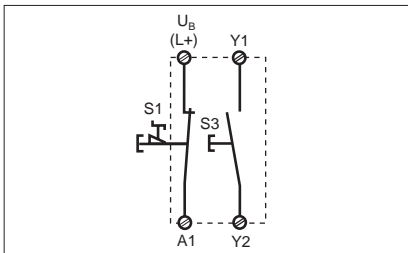
Internal Wiring Diagram



External Wiring

● Example 1

Single-channel E-STOP wiring with manual reset.

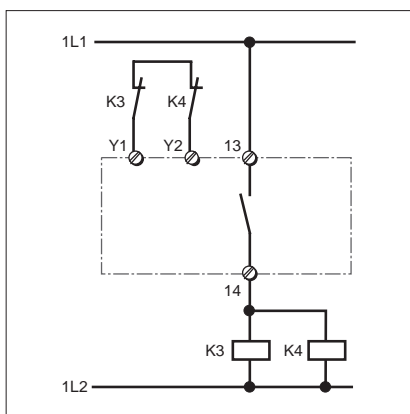


– Key

S1: E-STOP button
S3: Reset button

● Increase in safety contacts

The number of output contacts can be increased by using expander modules or relays/contactors with positive-guided contacts.



Category 2, EN 954-1 PNOZ Z

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	IEC 60068-2-3, 1969
Airgap Creepage	DIN VDE 0110 part1, 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