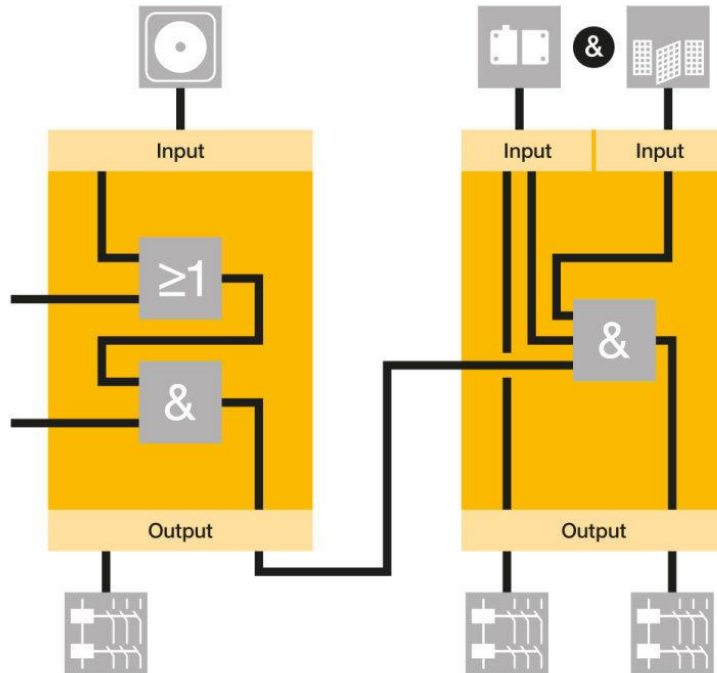# Safety relays
PNOZelog

PILZ

THE SPIRIT OF SAFETY

Safety relays PNOZelog – Solid-state safety!

▶ The innovative PNOZelog product range combines the experience of electromechanical safety relays with the advantages of modern electronics

▶ The right PNOZelog for every safety function
  – One to four safety functions can be monitored reliably
  – Save on wiring
  – Easy to link via logic operations such as AND/OR
  – Expanded diagnostics increase your machine's availability
  – Power-up tests, self-checking and runtime tests guarantee maximum safety

PNOZelog – An overview of the features

- Long service life
- Expanded diagnostics
- Non-wearing
- AND/OR connections
- Compact
- Plug-in terminals (spring-loaded terminals, screw terminals)

Monitor two safety functions simultaneously with just a single unit.
Interconnect PNOZelog to form linked safety functions. Logic connections are available for this purpose. These logic AND/OR connections remove the need for additional wiring on the output. Both outputs on the PNOZelog units are free to use.

Mobile applications
- Recycling machinery such as sieves, assembly lines and vibration plants
- Shredding plants

The PNOZelog combines several classic hard-wired functions within one elog solution, for example:
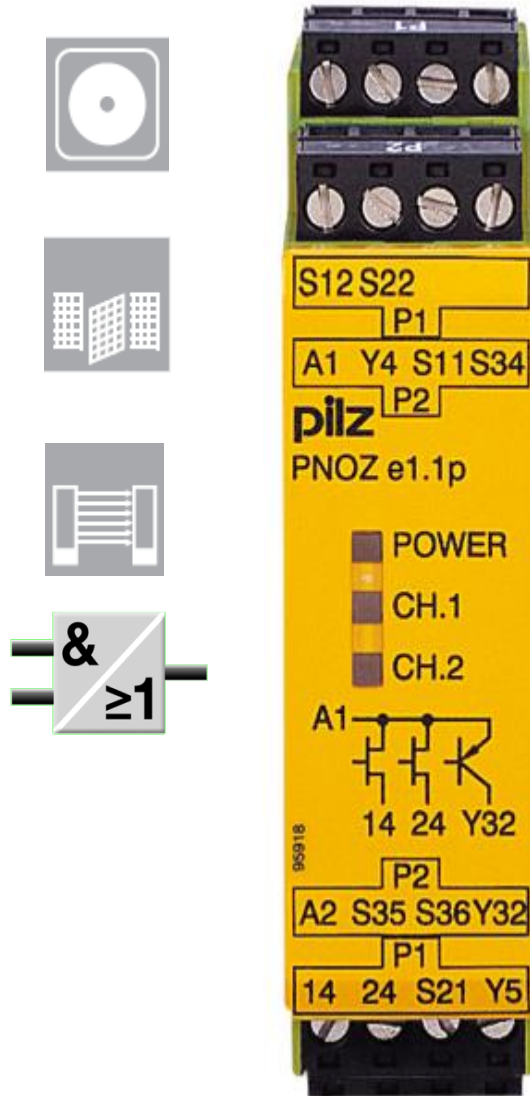- Safety gate
- E-STOP
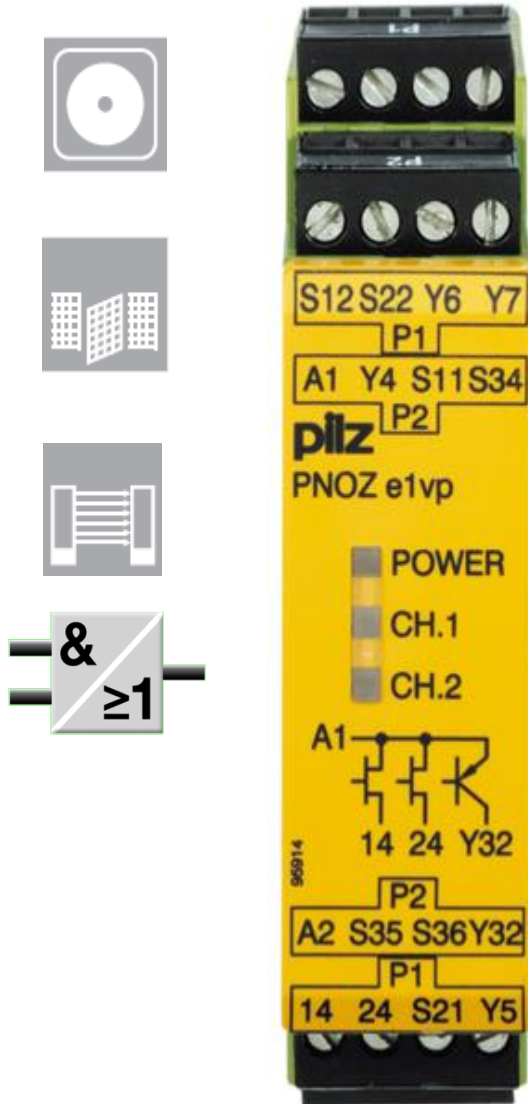- Enabling switch
- etc.

PNOZ e1p – Multifunctional PNOZelog

- ▶ One unit that can be applied universally; covers all safety applications from E-STOP through to light beam devices in all categories in accordance with EN ISO 13849-1 and EN 954-1

- ▶ Lower logistics costs thanks to a multifunctional product, which can be applied universally

- ▶ Simple product selection
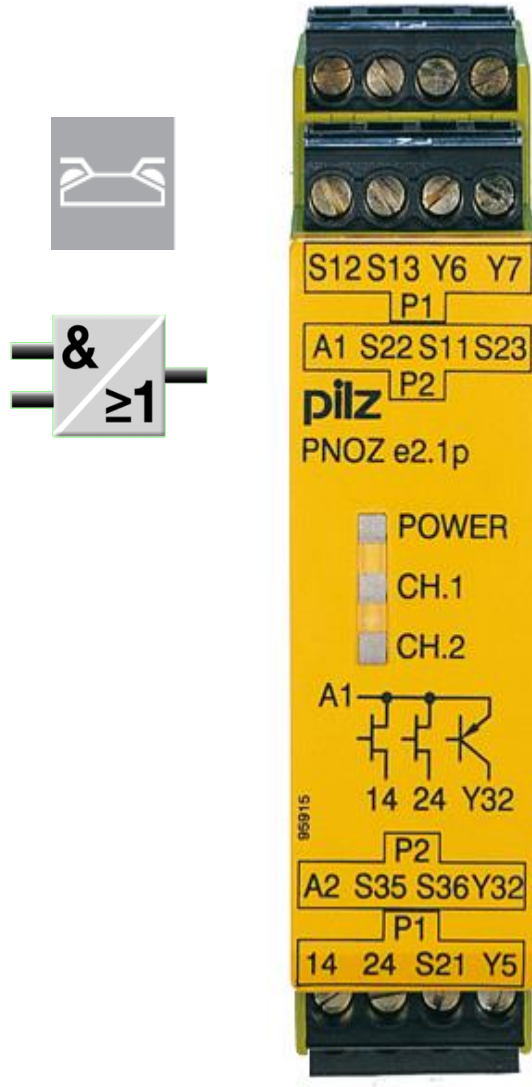
PNOZ e1.1p – PNOZelog with logic link function

▸ Functions are the same as the PNOZ e1p

▸ Additional logic AND/OR function
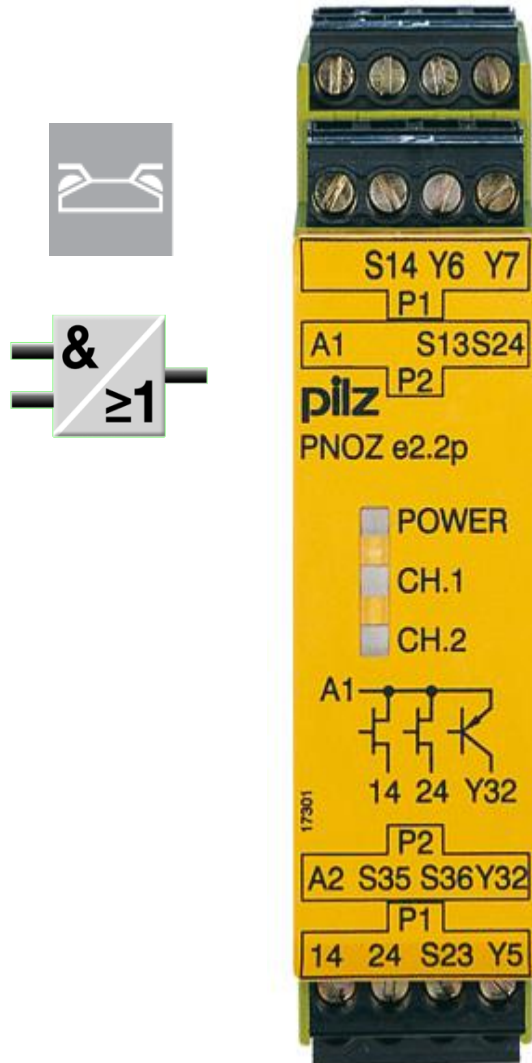
PNOZ e1vp – PNOZelog with delay

- ▸ Functions are the same as the PNOZ e1.1p
- ▸ 2 types: Time range up to 10 s and up to 300 s
- ▸ Safe delay time, for which parameters can be set
- ▸ Safe instantaneous or delayed output with Pl e (in accordance with EN ISO 13849-1) and Cat. 4 (in accordance with EN 954-1)
- ▸ 9 selectable times
- ▸ With logic AND/OR function
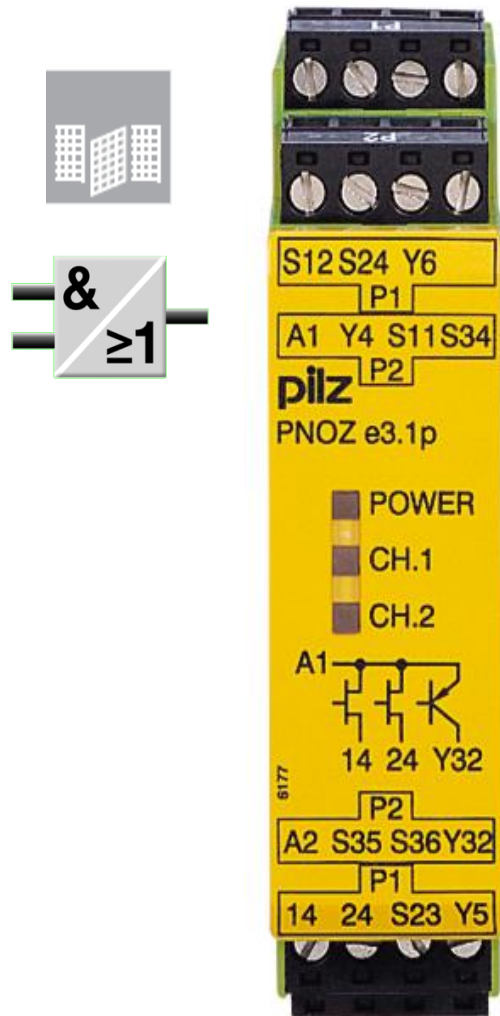
PNOZ e2.1p – PNOZelog for two-hand

- Two-hand pushbuttons connected directly
- Requirement class IIIC EN 574
- Test pulse outputs
- Detection of shorts across contacts
- Simultaneity monitoring in accordance with EN 574
- With logic AND/OR function
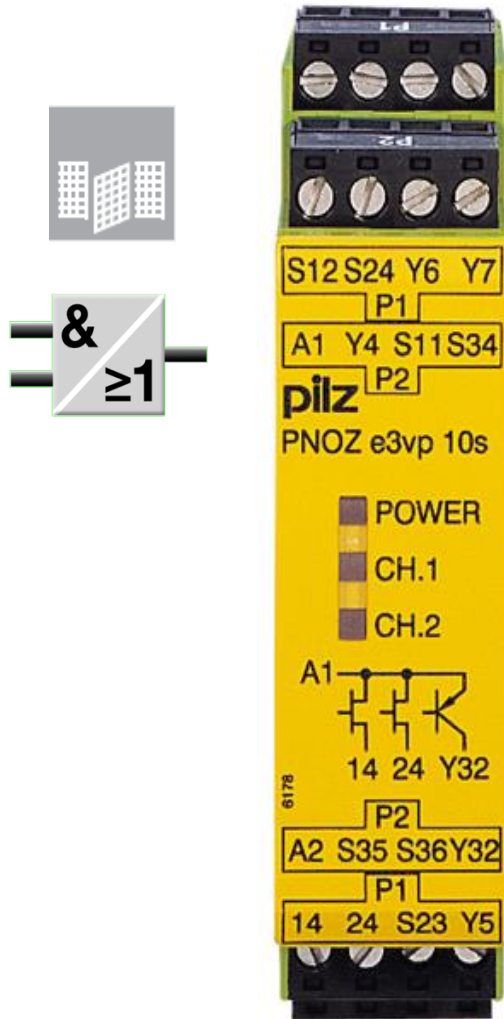
PNOZ e2.2p – PNOZelog for two-hand

- Two-hand pushbuttons connected directly
- Requirement class IIIA EN 574
- Test pulse outputs
- Detection of shorts across contacts
- Simultaneity monitoring in accordance with EN 574
- With logic AND/OR function
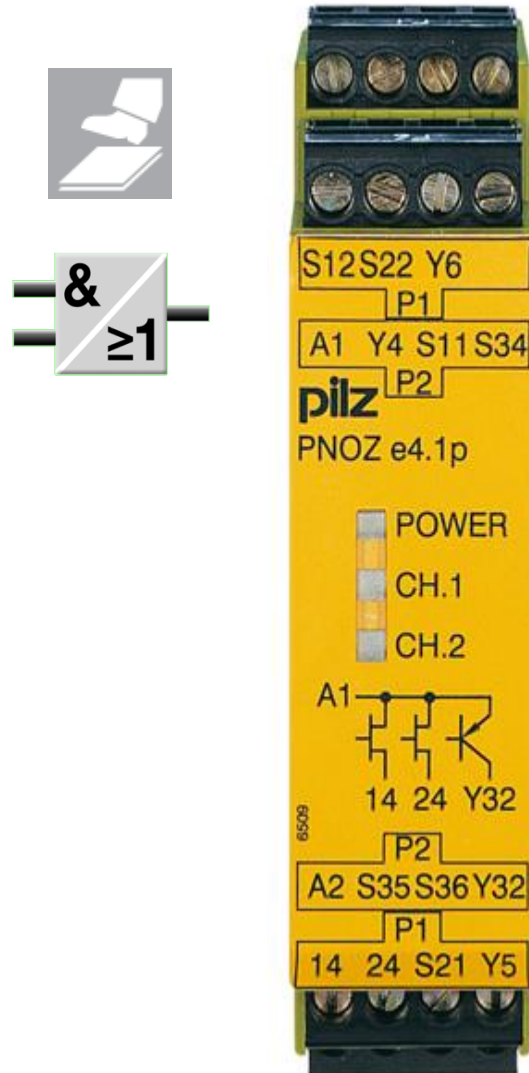
PNOZ e3.1p – PNOZelog for safety gate monitoring

- ▸ Evaluation device for non-contact magnetic safety switches from the PSEN 2.x range
- ▸ In accordance with the standard EN 60947-5-3, the unit comprising PNOZ e3.1p and PSEN 2.x is classified as PDF-M with self monitoring for increased safety requirements
- ▸ With logic AND/OR function

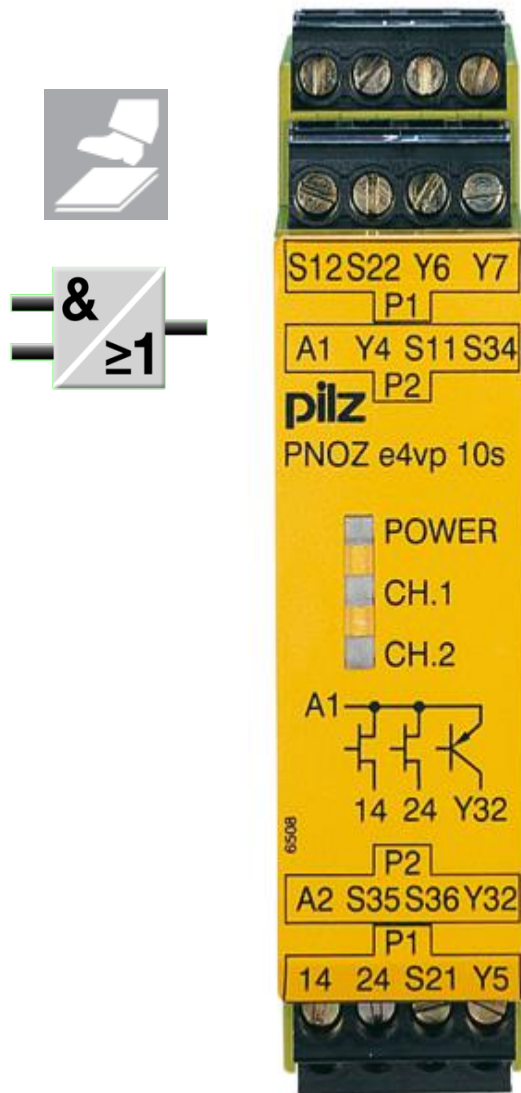# PNOZ e3vp – PNOZelog for safety gate monitoring with delay

- Functions are the same as the PNOZ e3.1p

- 2 types: Time range up to 10 s and up to 300 s

- Safe delay time, for which parameters can be set

  - Safe instantaneous or delayed output with Ple (in accordance with EN ISO 13849-1) and Cat. 4 (in accordance with EN 954-1)

- 9 selectable times

- With logic AND / OR function

PNOZ e4.1p – PNOZelog for monitoring pressure sensitive mats

- ▸ Evaluation device for connection to Mayser SM/BK type safety mats

- ▸ Suitable as an evaluation device for connection to PSS/DIO/PNOZmulti

- ▸ For Category 4 in accordance with EN ISO 13849-1 and Category 3 in accordance with EN 954-1

- ▸ With logic AND/OR function

PNOZ e4vp, 10 s – PNOZelog for monitoring pressure sensitive mats with delay

- Functions are the same as the PNOZ e4.1p
- Delay time range up to 10 s
- With logic AND / OR function

PNOZ e5.11– The bi-functional PNOZelog

- ▶ Monitors 2 logically connected safety functions in one housing

- ▶ 2 N/C contacts per safety function

- ▶ Logic AND connection between the 2 safety functions

- ▶ One logic AND input to connect several PNOZelogs

- ▶ Each safety function has a separate signal output

- ▶ Less wiring needed, so less space is required in the control cabinet

PNOZ e5.13p – The bifunctional PNOZelog

- Monitors 2 logically connected safety functions in one housing

- Safety functions N/C / N/O and N/C / N/C

- Logic AND connection between the 2 safety functions

- One logic AND input to connect several PNOZelogs

- Each safety function has a separate signal output

- Less wiring needed, so less space required in the control cabinet

PNOZ e7p– PNOZelog for monitoring single light beam devices

▸ Connection option for E-STOP pushbuttons, safety gate limit switches, reset buttons

▸ Proximity switch evaluation devices, available with monitored or automatic reset

▸ One logic AND input

▸ Ability to connect up to 2 Pilz single light beam devices

Safe power-up in conjuction with the safe line inspection device PLIDdys

▶ Line inspection device PLIDdys in combination with the evaluation device PNOZ e8.1p

▶ The safe line inspection device PLIDdys provides safe power-up on two-wire connections, providing maximum safety on long cable routes

The 4-fold safety
of automation

COMPONENTS
SYSTEMS
SERVICES

Technical Ecological
Personal Economical

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Tel.: +1 734 354-0272
Fax: +1 734 354-3355
info@pilzusa.com

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the spirit of safety

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