

EN 574, Type IIIA P1HZ 2



Two-hand relay in accordance with VDE 0113-1, 11/98, EN 60204-1, 12/97 and IEC 204-1, 11/98.

Features

 Conforms to EN 574, Type IIIA with partial fail to safety and in accordance with EN 954, Category 1.

Approvals

	P1HZ 2	
BG	•	
UL LISTED	•	
CUL	•	

Technical Details	P1HZ 2
Electrical Data	
Supply Voltage	AC: 24, 42, 110, 115, 120, 230, 240 V
	DC: 24 V
Tolerance	85 110 %
Residual Ripple DC	Max. 20 %
Power Consumption	Approx. 4 VA/2 W
Voltage and Current at the	24 VDC, 40 mA
Input Circuits 1/2	
Switching Capability in accordance with	
EN 60947-4-1, 01/00	AC1: 240 V/6 A/1500 VA
	DC1: 24 V/1.5 A/12 W
EN 60947-5-1, 08/00	AC15: 230 V/2.5 A; DC13: 24 V/1.5 A
(DC13: 6 cycles/min.)	
Output Contacts	2 safety contacts (N/O)
Contact Fuse Protection	6 A quick or 4 A slow
(EN 60947-5-1, 08/00)	
Times	
Delay-on Energisation EN 574	10 ms
Delay-on De-energisation	Approx. 30 ms
Simuiltaneity channel 1/2	Max. 500 ms
Mechanical Data	
Torque Setting on Connection Terminals	1.2 Nm (screws)
Maximum Cross Section of	2 x 2.5 mm ²
External Conductors	Single-core or multi-core with
	crimp connectors
Dimensions (H x W x D)	87 x 45 x 110 mm
Weight	AC: 380 g, DC: 280 g

Description

- 45 mm, P-75-housing, DIN-Rail mounting
- Positive-guided relay outputs:2 safety contacts (N/O)
- Increase in the number of safety contacts available by connecting expander modules.

Function Description

The two-hand relay is not suitable for use as the primary safety device on mechanical and hydraulic presses or in safety circuits for type IIIC applications. For such applications we recommend using the P2HZ 5 or P2HZ X1.

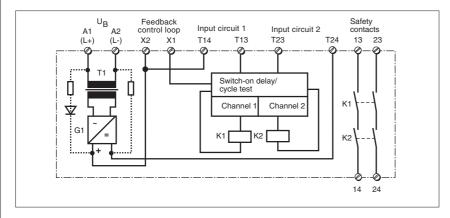
A cycle can only be initiated by pressing the two pushbuttons simultaneously. A cycle is interrupted by releasing one or both buttons to stop the output.

The output signal can only be reinitiated after both inputs have been released and the pushbuttons are operated again.

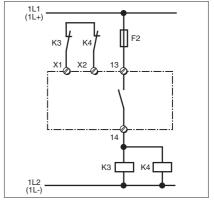


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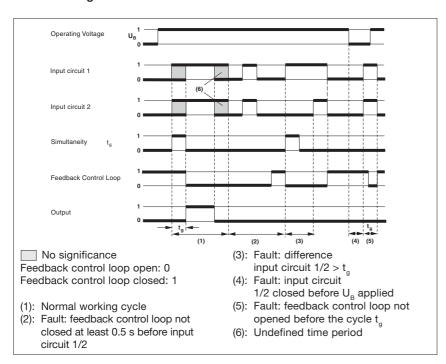
Internal Wiring Diagram



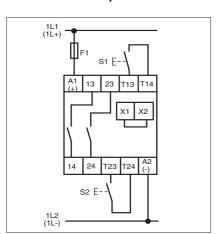
• Increase in safety contacts
The number of output contacts can
be increased by using expander
modules or relays/contactors with
positive-guided contacts.



Function Diagram



Connection Example



Key

S1/S2: Two-hand pushbuttons



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General Technical Data

Unless stated otherwise in the technical details for the specific unit

03/00

The units were tested in accordance with the relevant standards current at the time of development.

Order References

Туре	U _B	Order No.
P1HZ 2	24 V DC	474 580
P1HZ 2	24 V AC	474 500
P1HZ 2	42 V AC	474 510
P1HZ 2	110 V AC	474 530
P1HZ 2	115 V AC	474 536
P1HZ 2	120 V AC	474 532
P1HZ 2	230 V AC	474 550
P1HZ 2	240 V AC	474 555