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› CBBEXP PNOZ e5.13p 24VDC 774191 Safety Relay Instruction Manual

CBBEXP 774191

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Model: 774191

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the CBBEXP PNOZ e5.13p 24VDC 774191 Safety Relay. It is crucial to read and understand all instructions before working with the device.

The PNOZ e5.13p is a programmable logic control product designed for safety-related applications in industrial environments. It operates on a 24VDC power supply and is identified by model number 774191.

2. SAFETY INFORMATION

WARNING: Improper installation or operation of this device can result in serious injury or death, and significant property damage. Only qualified personnel familiar with safety standards and industrial electrical systems should install, operate, or maintain this product.

- Always disconnect power before performing any installation, wiring, or maintenance tasks.
- Ensure all wiring complies with local and national electrical codes.
- Protect the device from moisture, dust, and extreme temperatures.
- Do not bypass or modify safety functions.
- Regularly inspect the device for damage or signs of malfunction.

3. PRODUCT OVERVIEW

The PNOZ e5.13p safety relay is a compact unit designed for reliable safety monitoring. It features clearly labeled terminals for easy connection and LED indicators for status monitoring.





Figure 1: Front panel of the PNOZ e5.13p safety relay. This image displays the front panel of the PNOZ e5.13p safety relay. Visible elements include the terminal designations (S12, S22, Y6, Y7, A1, S32, Y37, S44, A2, S34, S36, Y32, 14, 24, Y33, Y5), power and channel (CH.1, CH.2) LED indicators, and the model number 'PNOZ e5.13p'.

4. SETUP

4.1 Mounting

Mount the safety relay in a suitable control cabinet or enclosure, ensuring adequate ventilation and protection from environmental factors. The device is typically designed for DIN rail mounting.

4.2 Wiring

Refer to the terminal designations on the device and the specific application wiring diagram for correct connections. Ensure all connections are secure and properly insulated.

- **Power Supply:** Connect 24VDC to the designated power terminals (e.g., A1, A2).
- **Inputs:** Connect safety-related input devices (e.g., emergency stop buttons, safety gates) to the input terminals (e.g., S12, S22, S32, S44).
- **Outputs:** Connect controlled devices (e.g., contactors, valves) to the output terminals (e.g., 14, 24, Y6, Y7, Y32, Y33, Y5).

Verify all wiring before applying power to the system.

5. OPERATING INSTRUCTIONS

5.1 Power On

Once wiring is complete and verified, apply 24VDC power to the safety relay. The 'POWER' LED indicator should illuminate, indicating the device is receiving power.

5.2 Status Indicators

The device features LED indicators to display its operational status:

- **POWER LED:** Indicates the presence of operating voltage.
- **CH.1 LED:** Indicates the status of safety channel 1.
- **CH.2 LED:** Indicates the status of safety channel 2.

Refer to the specific product documentation for detailed interpretation of LED states (e.g., steady on, flashing) which typically indicate normal operation, fault conditions, or input states.

6. MAINTENANCE

The PNOZ e5.13p safety relay is designed for minimal maintenance. However, regular inspections are recommended to ensure continued safe operation.

- **Visual Inspection:** Periodically check the device for any signs of physical damage, loose connections, or discoloration.
- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Functional Testing:** Perform periodic functional tests of the safety circuit as required by relevant safety standards and regulations.

7. TROUBLESHOOTING

If the safety relay does not function as expected, consider the following troubleshooting steps:

- **No Power LED:** Check the 24VDC power supply and its connections to the relay. Ensure the power source is active.

- **Faulty Channel LED:** If a channel LED indicates a fault (e.g., flashing rapidly), inspect the associated safety input devices and their wiring for breaks, short circuits, or incorrect operation.
- **Outputs Not Activating:** Verify that all safety inputs are in their safe state, and the reset conditions (if applicable) have been met. Check the wiring to the controlled devices.
- **Unexpected Shutdown:** Review the system's safety logic and ensure all safety devices are functioning correctly. An unexpected shutdown often indicates a triggered safety function.

If issues persist after basic troubleshooting, consult a qualified technician or contact customer support.

8. SPECIFICATIONS

Attribute	Detail
Model	PNOZ e5.13p
Item Model Number	774191
Type	Programmable Logic Control Product (Safety Relay)
Operating Voltage	24VDC
Manufacturer	CBBEXP
ASIN	B0CH5BYXMN
Date First Available	September 2, 2023

9. WARRANTY AND SUPPORT

9.1 Warranty

This CBBEXP PNOZ e5.13p 24VDC 774191 Safety Relay comes with a **One-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Zhengbang Automation, the specialized provider of PLC hardware. They are committed to providing excellent customer service and have extensive experience with leading brands.

You may consult them online for any model and quantity for pricing and support.