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› CBBEXP /

› CBBEXP PNOZ p1p 24VDC 773300 Safety Relay User Manual

CBBEXP 773300

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Model: 773300 | Brand: CBBEXP

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of the CBBEXP PNOZ p1p 24VDC 773300 Safety Relay. It covers installation, operation, maintenance, and troubleshooting to ensure proper functionality and safety in industrial applications. Please read this manual thoroughly before installation or operation.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Installation and maintenance should only be performed by qualified personnel.
- Disconnect all power before working on the device or its connections.
- Ensure proper grounding to prevent electrical shock.
- Verify all wiring connections are secure and correct according to the wiring diagrams.
- Do not operate the device if it is damaged or shows signs of malfunction.
- Adhere to all local and national electrical codes and safety regulations.

3. PRODUCT OVERVIEW

The CBBEXP PNOZ p1p 24VDC 773300 is a safety relay designed for monitoring safety functions in industrial control systems. It features multiple input and output terminals, along with LED indicators for status monitoring.

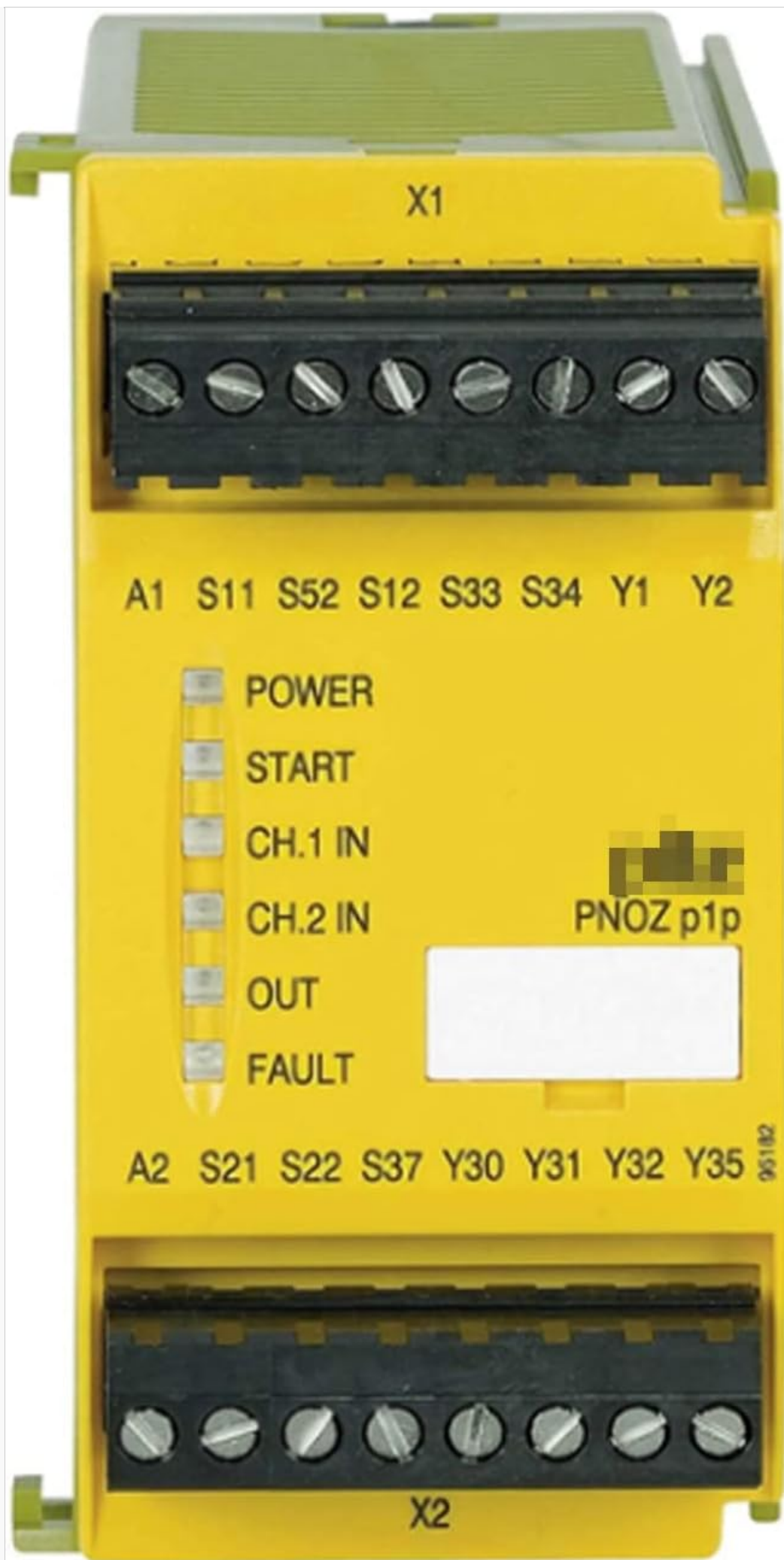


Figure 1: CBBEXP PNOZ p1p 24VDC 773300 Safety Relay Front Panel

This image displays the front panel of the safety relay. At the top, the X1 terminal block is visible, followed by various input terminals labeled A1, S11, S52, S12, S33, S34, Y1, and Y2. A series of LED indicators are present on the left side, labeled POWER, START, CH.1 IN, CH.2 IN, OUT, and FAULT. The model designation 'PNOZ p1p' is also visible. At the bottom, the X2 terminal block is shown with output terminals labeled A2, S21, S22, S37, Y30, Y31, Y32, and Y35.

3.1. Terminal Designations

- **X1 / X2:** Main terminal blocks for power and signal connections.
- **A1 / A2:** Power supply connections (24VDC).
- **S11, S52, S12, S33, S34:** Input terminals for safety circuits.
- **Y1, Y2, Y30, Y31, Y32, Y35:** Output terminals for control and signaling.
- **S21, S22, S37:** Additional input or feedback terminals.

3.2. LED Indicators

- **POWER:** Indicates that the device is receiving power.
- **START:** Indicates the start function is active or initiated.
- **CH.1 IN:** Status indicator for Channel 1 input.
- **CH.2 IN:** Status indicator for Channel 2 input.
- **OUT:** Indicates the safety outputs are active.
- **FAULT:** Indicates an error or fault condition within the safety circuit or device.

4. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Mounting:** Mount the safety relay securely on a DIN rail in a suitable control cabinet, ensuring adequate ventilation.
2. **Power Connection:** Connect the 24VDC power supply to terminals A1 and A2. Ensure correct polarity.
3. **Input Wiring:** Connect safety devices (e.g., emergency stop buttons, safety gates) to the appropriate input terminals (S11, S52, S12, S33, S34, S21, S22, S37) according to your safety circuit design.
4. **Output Wiring:** Connect controlled devices (e.g., contactors, motor starters) to the output terminals (Y1, Y2, Y30, Y31, Y32, Y35).
5. **Verification:** Double-check all wiring connections for correctness and security before applying power.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, operate the safety relay as follows:

1. **Power On:** Apply 24VDC power. The **POWER** LED should illuminate.
2. **Start-up:** Initiate the start function as per your safety circuit design. The **START** LED should illuminate briefly or continuously depending on the configuration.
3. **Input Monitoring:** Observe **CH.1 IN** and **CH.2 IN** LEDs to confirm proper signal reception from connected safety devices.
4. **Output Activation:** When all safety conditions are met, the **OUT** LED will illuminate, indicating that the safety outputs are active and enabling the controlled machinery.
5. **Safety Function:** If a safety device is activated (e.g., E-stop pressed), the **OUT** LED will extinguish, and the safety outputs will de-energize, bringing the machinery to a safe state.

6. MAINTENANCE

The CBBEXP PNOZ p1p 24VDC 773300 Safety Relay is designed for reliable operation with minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Regularly inspect the device for any signs of physical damage, loose connections, or overheating.
- **Functionality Test:** Periodically test the complete safety circuit, including the relay, by activating safety devices to ensure proper shutdown.
- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

7. TROUBLESHOOTING

If the safety relay is not functioning as expected, refer to the following troubleshooting guide:

- **No POWER LED:**
 - Check the 24VDC power supply to terminals A1 and A2.
 - Verify power supply fuses or circuit breakers.
- **FAULT LED is ON:**
 - Indicates an internal fault or an error in the connected safety circuit.
 - Check all safety inputs for proper operation and wiring.
 - Ensure all safety devices are in their safe (closed) state.
 - If the fault persists after checking external connections, the device may require replacement.
- **OUT LED does not illuminate:**
 - Ensure all safety inputs (CH.1 IN, CH.2 IN) are active and indicating a safe state.
 - Verify the start function has been correctly initiated (START LED).
 - Check for any active fault conditions (FAULT LED).

For issues not resolved by these steps, contact technical support.

8. SPECIFICATIONS

Feature	Specification
Model	773300
Type	Programmable Logic Control Product (Safety Relay)
Brand	CBBEXP
Operation Mode	Automatic
Coil Voltage	24 Volts DC
Maximum Switching Voltage	24 Volts
UPC	762668898923

9. WARRANTY AND SUPPORT

This CBBEXP PNOZ p1p 24VDC 773300 Safety Relay comes with a**One-Year Warranty** from the date of purchase. This

warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or any inquiries regarding the product, please contact CBBEXP customer service. Zhengbang Automation, a specialist in PLC hardware, also provides support and has a large stock for various models.

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