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› BAWAZINA PNOZ-X2.8P-24VACDC-3n/o-1n/c 777301 Safety Relay Instruction Manual

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BAWAZINA PNOZ-X2.8P-24VACDC-3n/o-1n/c 777301 Safety Relay Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the BAWAZINA PNOZ-X2.8P-24VACDC-3n/o-1n/c 777301 Safety Relay. Please read this manual thoroughly before attempting to install or operate the device. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

Observe all local and national safety regulations and standards when installing and operating this device. Failure to follow these instructions may result in serious injury or equipment damage.

- Installation, commissioning, and maintenance must only be carried out by qualified and authorized personnel.
- Disconnect all power sources before performing any work on the device or its connections.
- Ensure proper grounding and wiring according to the provided diagrams and local electrical codes.
- Do not bypass or disable safety functions.
- Protect the device from moisture, dust, and extreme temperatures.
- Regularly inspect the device for any signs of damage or malfunction.

3. PRODUCT OVERVIEW

The BAWAZINA PNOZ-X2.8P-24VACDC-3n/o-1n/c 777301 is an electromechanical safety relay designed for monitoring safety functions in industrial applications. It features 3 normally open (n/o) and 1 normally closed (n/c) contacts, operating on 24VAC/DC.



Figure 1: Front view of a similar safety relay (PNOZ s4 24VDC 3n/o 1n/c Ident. No: 750104) for illustrative purposes, showing connection terminals, operating voltage, current ratings, and reset options.



Figure 2: Side view of a similar safety relay, highlighting the compact design and housing.

4. TECHNICAL SPECIFICATIONS

The following specifications apply to the BAWAZINA PNOZ-X2.8P-24VACDC-3n/o-1n/c 777301 Safety Relay.

Parameter	Value
Brand	BAWAZINA
Model	PNOZ-X2.8P-24VACDC-3n/o-1n/c
Part Number	777301
Operating Voltage	24 VAC/DC (-15% / +10%)
Power Consumption	2.5 W (typical)
Output Contacts	3 Normally Open (n/o), 1 Normally Closed (n/c)
AC15 Rating	230V, 5.0A
DC13 Rating	24V, 5.0A
AC1 Rating	240V, 6.0A
DC1 Rating	24V, 6.0A
Fuse Protection	10AF / 6AT
Item Weight	200 Grams
Unit Count	1.0 Count

5. INSTALLATION AND SETUP

5.1 Mounting

The safety relay is designed for DIN rail mounting. Ensure the mounting location is free from excessive vibration, heat, and moisture. Snap the device onto a standard 35mm DIN rail.

5.2 Wiring Connections

Refer to the wiring diagram on the device label (Figure 1) for correct connections. Use appropriate wire gauges for the current ratings. Ensure all connections are secure and properly insulated.

- **A1/A2:** Power supply input (24 VAC/DC).
- **S11, S12, S21, S22:** Input circuits for safety devices (e.g., emergency stop buttons, safety gates).
- **13, 23, 33:** Normally Open (n/o) safety output contacts.
- **14, 24, 34:** Corresponding Normally Open (n/o) safety output contacts.
- **41, 42:** Normally Closed (n/c) auxiliary output contact.
- **Reset/Start:** Connection for the reset function.

Note: The specific wiring configuration will depend on your application and the safety circuit design. Consult a qualified electrician or safety engineer for complex installations.

6. OPERATING INSTRUCTIONS

Once correctly installed and wired, the safety relay monitors the connected safety devices. When all safety inputs

are closed (e.g., emergency stop released, safety gate closed), the relay can be reset to enable the safety outputs.

6.1 Reset Options

The relay supports various reset functions, typically configured via wiring:

- **Automatic/Manual Reset:** The relay can be configured for automatic reset upon restoration of safety inputs or require a manual reset button press.
- **Reset with Rising Edge:** The relay resets when the reset input transitions from OFF to ON.
- **Reset with Falling Edge:** The relay resets when the reset input transitions from ON to OFF.
- **Reset with Start-up Test:** The relay performs a self-test during power-up or reset.

Refer to the detailed technical instructions for specific wiring configurations for each reset type.

6.2 Status Indicators

The device may include LED indicators to display its operational status (e.g., power ON, input status, output status, fault). Consult the full technical documentation for a detailed explanation of LED indications.

7. MAINTENANCE

The BAWAZINA PNOZ-X2.8P-24VACDC-3n/o-1n/c 777301 Safety Relay is designed for long-term, maintenance-free operation under normal conditions. However, periodic checks are recommended.

- **Visual Inspection:** Periodically check the device for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Functional Test:** Regularly test the safety circuit and the relay's function according to your safety protocol and local regulations.

There are no user-serviceable parts inside the relay. Do not attempt to open or repair the device. Contact qualified personnel for any issues.

8. TROUBLESHOOTING

If the safety relay is not functioning as expected, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Relay does not energize	No power supply (A1/A2) Safety inputs not closed Incorrect wiring Faulty device	Check power supply voltage. Verify all safety devices are in safe state. Inspect wiring against diagram. Replace device if faulty.
Outputs do not switch ON after reset	Reset button not pressed/wired correctly Safety inputs still open Internal fault	Check reset circuit and button function. Ensure all safety devices are closed. Consult technical support.
Unexpected shutdown	Safety input opened Power interruption Internal fault	Identify which safety device triggered the shutdown. Check power supply stability. Consult technical support.

If the problem persists after following these steps, contact qualified technical personnel or the manufacturer for assistance.

9. WARRANTY

This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The warranty period and terms are subject to the specific purchase agreement and local regulations. Please retain your proof of purchase for warranty claims. Damage resulting from improper installation, misuse, unauthorized modification, or natural disasters is not covered by the warranty.

10. SUPPORT

For technical assistance, product inquiries, or support, please refer to the contact information provided by your supplier or the BAWAZINA official website. When contacting support, please have your product model (PNOZ-X2.8P-24VACDC-3n/o-1n/c) and part number (777301) readily available.