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NDZZQBPGO PB25 25MM

NDZZQBPGO PB25 25MM Momentary Push Button Switch User Manual

Model: PB25 25MM

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your NDZZQBPGO PB25 25MM Momentary Push Button Switch. Please read this manual thoroughly before use and retain it for future reference.
The PB25 25MM is a momentary, spring-return push button switch featuring 1 Normally Open (NO) and 1 Normally Closed (NC) contact configuration. It is designed for various industrial and electrical control applications.

2. Safety Information

WARNING: Electrical shock hazard. Always disconnect power before installing, servicing, or removing this device. Installation should only be performed by qualified personnel in accordance with all local and national electrical codes.

- Ensure the power supply is completely off before beginning any work.
- Verify voltage and current ratings of the switch are compatible with your application.
- Use appropriate personal protective equipment (PPE) such as insulated gloves and safety glasses.
- Do not operate the switch if it appears damaged.
- Keep children away from electrical components.

3. Product Overview

The NDZZQBPGO PB25 25MM switch is a robust momentary push button designed for reliable performance. It features a spring-return mechanism, meaning the button returns to its original position when released. The contact block includes both Normally Open (NO) and Normally Closed (NC) contacts, providing flexibility for various control circuits.



Figure 1: Front view of the PB25 25MM Momentary Push Button Switch. This image shows the red push button and the silver threaded bezel for panel mounting.



Figure 2: Side view of the PB25 25MM switch, illustrating the contact block with screw terminals for electrical connections. The transparent housing allows visibility of the internal contacts.

Key Features:

- **Momentary Action:** Button returns to original position upon release.
- **Contact Configuration:** 1 Normally Open (NO) and 1 Normally Closed (NC) contacts.
- **Mounting Size:** 25MM panel cutout diameter.
- **Durable Construction:** Designed for industrial environments.

4. Setup and Installation

Follow these steps for proper installation of the PB25 25MM push button switch:

1. **Power Disconnection:** Ensure all power to the circuit where the switch will be installed is disconnected and locked out.
2. **Panel Preparation:** Create a 25MM diameter cutout in the control panel. Ensure the panel thickness is within the switch's specified limits.
3. **Mounting the Switch:**
    - Remove the mounting nut and washer from the switch body.
    - Insert the switch body through the cutout from the front of the panel.
    - Place the washer and then thread the mounting nut onto the switch body from the rear of the panel.
    - Tighten the mounting nut securely to hold the switch in place. Do not overtighten.
4. **Wiring Connections:**

    The switch features 1 Normally Open (NO) and 1 Normally Closed (NC) contact. Refer to the markings on the contact block for proper identification.

- **Normally Open (NO):** The circuit is open (no current flow) when the button is not pressed and closes when the button is pressed.
- **Normally Closed (NC):** The circuit is closed (current flows) when the button is not pressed and opens when the button is pressed.
- Connect your control wires to the appropriate screw terminals. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.

5. **Verification:** Double-check all wiring connections for correctness and security.
6. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.

5. Operating Instructions

The NDZZQBPGO PB25 25MM is a simple momentary push button switch. Its operation is straightforward:

- **To Activate:** Press the button firmly. While the button is pressed, the NO contacts will close, and the NC contacts will open.
- **To Deactivate:** Release the button. The spring-return mechanism will cause the button to return to its original position, and the NO contacts will open, while the NC contacts will close.

Ensure the switch is used within its specified electrical ratings to prevent damage or malfunction.

6. Maintenance

The PB25 25MM switch is designed for low maintenance. However, periodic inspection can help ensure long-term reliability.

- **Cleaning:** If necessary, gently wipe the exterior of the switch with a clean, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check for any signs of physical damage, loose connections, or excessive wear. Address any issues promptly.
- **Environmental Conditions:** Ensure the switch is operating within its intended environmental conditions (temperature, humidity) to prevent premature failure.

Always disconnect power before performing any maintenance or inspection.

7. Troubleshooting

If you encounter issues with your PB25 25MM switch, consider the following:

Problem	Possible Cause	Solution
Switch does not activate circuit.	• No power to the circuit. • Incorrect wiring (e.g., connected to NC instead of NO for activation). • Loose wire connections. • Damaged switch contacts.	• Verify power supply. • Check wiring against circuit diagram. • Tighten all screw terminals. • Replace the switch if damaged.

Problem	Possible Cause	Solution
Switch remains activated after release.	• Switch is not a momentary type (not applicable for PB25). • Spring-return mechanism is faulty. • Button is physically stuck.	• Inspect for physical obstruction. • Replace the switch if the spring mechanism is faulty.
Intermittent operation.	• Loose connections. • Worn contacts.	• Tighten all connections. • Replace the switch.

If the problem persists after attempting these solutions, contact a qualified electrician or the manufacturer for assistance.

8. Specifications

Feature	Detail
Model	PB25
Mounting Hole Diameter	25MM
Switch Type	Momentary, Spring Return Push Button
Contact Configuration	1 Normally Open (NO) + 1 Normally Closed (NC)
Manufacturer	NDZZQBPGO
Item Weight	4.3 ounces
Package Dimensions	1.18 x 0.79 x 0.39 inches
Assembly Required	No

Note: Electrical ratings (voltage, current) are typically marked on the switch body or contact block. Always refer to these markings for precise operational limits.

9. Warranty and Support

Specific warranty information for this product may vary. Please refer to your purchase documentation or contact your retailer for details regarding warranty coverage.
For technical support or inquiries, please contact the manufacturer, NDZZQBPGO, or your authorized distributor.

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