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ETURBEV XB4-BL8425

ETURBEV XB4-BL8425 Twin Button Switch Instruction Manual

Model: XB4-BL8425

1. Introduction

The ETURBEV XB4-BL8425 Twin Button Switch is an industrial-grade control component designed for use in various electrical circuits. It features two distinct push buttons, typically red and green, for signal control and interlocking purposes. This device is suitable for AC circuits up to 660V/50Hz or 60Hz and DC circuits below 400V. Its robust construction, utilizing zinc alloy and high-grade anti-flame plastic, along with special silver alloy contacts, ensures durability and reliable performance in demanding environments.
This manual provides essential information for the safe and effective installation, operation, and maintenance of your XB4-BL8425 Twin Button Switch.

2. Technical Specifications

Specification	Value
Operational Voltage (AC)	Up to 660V (50Hz/60Hz)
Operational Voltage (DC)	Below 400V
Ambient Temperature	-25°C to +55°C
Operational Humidity	45% to 90%
Power-frequency Withstand Voltage	2500V AC, 1 minute
Contact Resistance	≤ 50mΩ
Mechanical Life (Momentary)	1,000,000 cycles
Mechanical Life (Others)	10,000 cycles
Electrical Life (Momentary)	100,000 cycles
Electrical Life (Others)	50,000 cycles

Specification	Value
Air Relative Humidity	≤ 85%
Vibration Frequency	2~80Hz, acceleration speed 0.7g/h
Pollution Grade	III
Installation Sort	III
Protection Grade	Up to IP40
Altitude	≤ 2000m
Package Dimensions	1.18 x 0.79 x 0.39 inches
Weight	1.76 ounces

3. Installation

Proper installation is crucial for the safe and reliable operation of the XB4-BL8425 Twin Button Switch. Always ensure power is disconnected before beginning any installation work.

3.1 Safety Precautions

- Disconnect all power to the circuit before installation.
- Ensure installation is performed by qualified personnel familiar with electrical wiring and safety standards.
- Verify that the operational voltage and current ratings of the switch match your application requirements.
- Wear appropriate personal protective equipment (PPE).

3.2 Mounting the Switch

1. Select a suitable mounting location on a control panel or enclosure, ensuring adequate space for wiring and operation.
2. Drill a hole of the appropriate diameter for the switch body. Refer to the product's dimension specifications for precise measurements.
3. Insert the switch body through the drilled hole.
4. Secure the switch using the provided locking nut or mounting hardware on the rear of the panel. Tighten securely to prevent rotation.

3.3 Wiring Connections

The XB4-BL8425 switch typically includes contact blocks (e.g., ZBE-101) that attach to the rear of the push button mechanism. These blocks provide the electrical connections.

- Identify the Normally Open (NO) and Normally Closed (NC) terminals on the contact blocks. The specific configuration will depend on your application.
- Connect the control circuit wires to the appropriate terminals. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.
- Verify correct polarity for DC circuits, if applicable.
- After wiring, double-check all connections for accuracy and safety before restoring power.



Figure 1: Side view of the XB4-BL8425 switch, illustrating the button assembly and contact block.



Figure 2: Angled view showing the contact block details, including "ZBE-101" and electrical specifications.

4. Operation

The XB4-BL8425 Twin Button Switch provides momentary control for two distinct functions, typically "Start" (Green) and "Stop" (Red).

4.1 Basic Functionality

- **Green Button:** Typically used for initiating a process or activating a circuit. Pressing this button will momentarily change the state of its associated contacts.
- **Red Button:** Typically used for stopping a process or deactivating a circuit. Pressing this button will momentarily change the state of its associated contacts.

The specific action triggered by each button depends on how the switch is wired into the control circuit. Always refer to your system's wiring diagram for the intended function of each button.



Figure 3: Front view of the twin button switch, showing the red and green buttons.

5. Maintenance

The XB4-BL8425 Twin Button Switch is designed for low maintenance. Regular inspection and cleaning can help ensure its longevity and reliable performance.

5.1 Cleaning

- Ensure power is disconnected before cleaning.
- Wipe the exterior of the switch with a clean, dry, or slightly damp cloth.
- Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the plastic components or internal mechanisms.

5.2 Inspection

- Periodically inspect the switch for any signs of physical damage, such as cracks, loose components, or discoloration.
- Check wiring connections for tightness and ensure there are no frayed or damaged wires.
- Verify that the buttons operate smoothly without sticking or excessive play.

6. Troubleshooting

If you encounter issues with your XB4-BL8425 Twin Button Switch, consider the following common troubleshooting steps:

- **Switch Not Responding:**
  - Check if power is supplied to the circuit.
  - Inspect all wiring connections for looseness or damage.
  - Verify the contact block is correctly seated and making proper contact with the button mechanism.
  - Test the continuity of the switch contacts with a multimeter (with power disconnected).
- **Intermittent Operation:**
  - Loose wiring connections are a common cause. Re-tighten all terminals.
  - Check for excessive dirt or debris around the button mechanism that might impede smooth operation.

- **Physical Damage:**
  - If the switch housing or buttons are visibly damaged, replacement may be necessary.

For issues not resolved by these steps, or for complex electrical problems, consult a qualified electrician or contact ETURBEV customer support.

7. Warranty and Support

For information regarding product warranty, technical support, or replacement parts, please contact ETURBEV customer service. Keep your purchase receipt and product model number (XB4-BL8425) handy when contacting support.
Please refer to the official ETURBEV website or your purchase documentation for the most current warranty terms and contact information.

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