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› Gebildet 16mm Blue LED Metal Locking Push Button Switch Instruction Manual (Model E1598)

## Gebildet E1598

# Gebildet 16mm Blue LED Metal Locking Push Button Switch Instruction Manual

Model: E1598

## 1. PRODUCT OVERVIEW

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This manual provides instructions for the Gebildet 16mm Blue LED Metal Locking Push Button Switch. This durable switch features a latching mechanism, meaning one press turns it ON and a second press turns it OFF. It is designed for various applications requiring a reliable and waterproof switch with an integrated blue LED indicator.



Image 1.1: Five Gebildet 16mm Blue LED Metal Locking Push Button Switches. These switches feature a metallic housing and a blue LED ring.

## 2. PACKAGE CONTENTS

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- 5 x Gebildet 16mm Blue LED Metal Locking Push Button Switches

## 3. SPECIFICATIONS

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Feature	Specification
Mounting Hole Size	16mm (5/8")
Switch Type	1 Normally Open (NO) 1 Normally Closed (NC)
Operation Type	Latching (Self-locking)
Rated Current/Voltage	5A, 12-24V
LED Life	40,000 hours
Electrical Life	100,000 cycles
Mechanical Life	500,000 cycles
Protection Rate	IP65 (Waterproof & Dustproof), IK09 (Anti-vandal)
Shell Material	Nickel Plated Brass
Contact Material	Silver Alloy
Panel Thickness	1-11mm
Nut Torque	5-14Nm
Contact Resistance	$\leq 50\text{m}\Omega$
Insulation Resistance	$\geq 1000\text{M}\Omega$
Ambient Temperature	-20°C ~ +50°C
Model Number	E1598



Image 3.1: Detailed specifications and dimensions of the Gebildet 16mm push button switch, including mounting hole size, switch type, and material.

## 4. SAFETY INFORMATION

- **Electrical Safety:** Always disconnect power before installing or servicing the switch to prevent electrical shock.
- **Water Resistance:** The switch is rated IP65 for water and dust resistance, making it suitable for wet or dusty environments. However, **do not immerse the switch in water.**
- **Anti-Vandal:** The IK09 rating indicates resistance to external mechanical impact.
- **Small Parts:** This product contains small parts. Keep out of reach of children under 3 years to prevent choking hazards.



1. Ensure the power supply is disconnected before beginning installation.
2. Drill a 16mm (5/8") diameter mounting hole in the desired panel. The panel thickness should be between 1mm and 11mm.
3. Insert the switch into the mounting hole from the front of the panel.
4. Secure the switch by tightening the nut on the back of the panel. Apply a torque of 5-14Nm.
5. Proceed with wiring as described in Section 6.

## 6. WIRING METHODS

The switch features 5 brass connections, allowing for flexible wiring configurations. It includes 1 Normally Open (NO) and 1 Normally Closed (NC) contact, and the LED can be wired to be always on or to illuminate only when the device is operating.

Refer to the diagram below for common wiring methods:

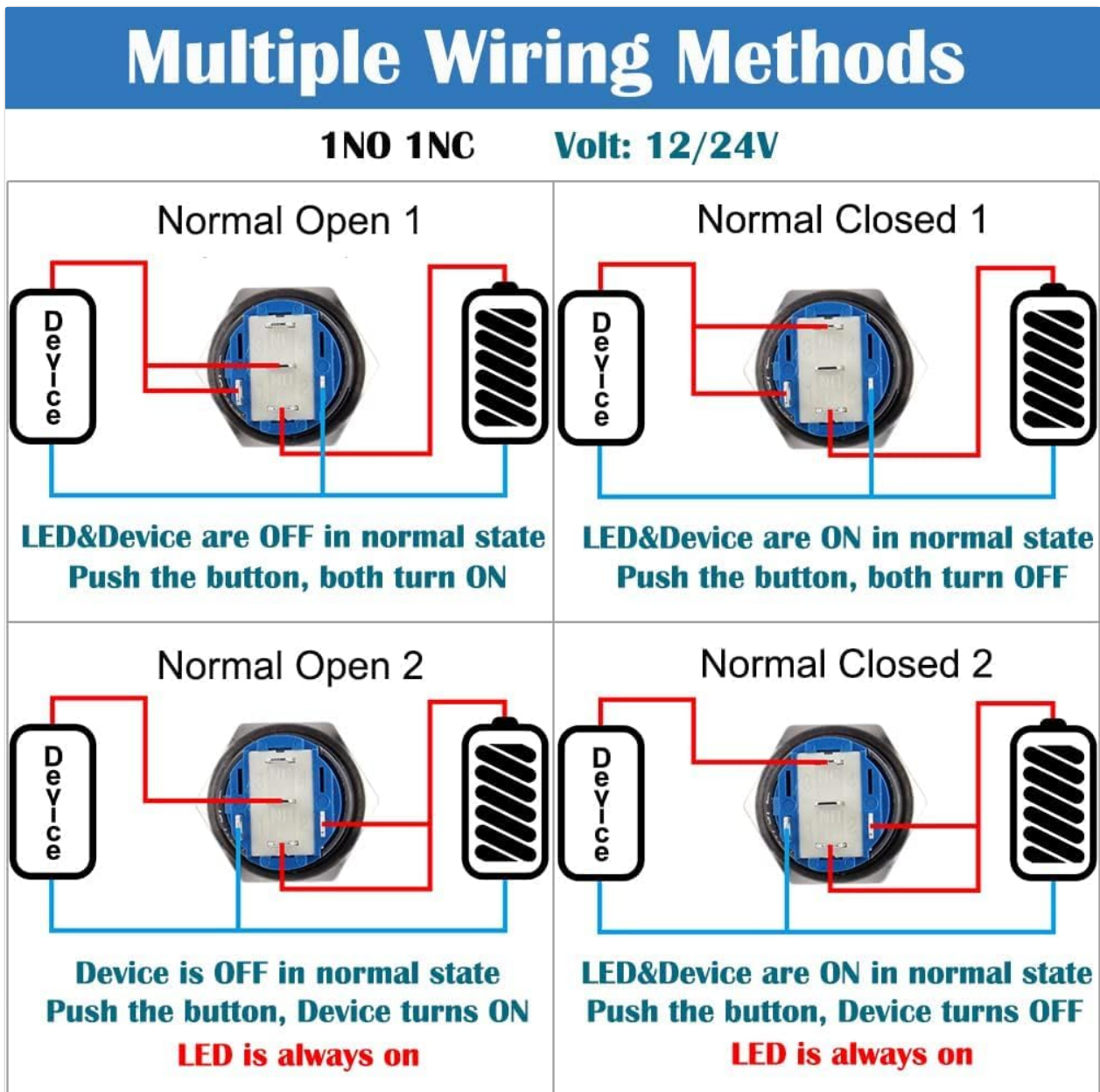


Image 6.1: This diagram illustrates four common wiring configurations for the switch, showing how to control both the device and the LED indicator in Normally Open and Normally Closed setups.

- **Normally Open (NO) Configuration:** The circuit is open (OFF) when the button is not pressed. Pressing the button closes the circuit (ON).

- **Normally Closed (NC) Configuration:** The circuit is closed (ON) when the button is not pressed. Pressing the button opens the circuit (OFF).
- The LED can be wired independently or in conjunction with the device operation.

## 7. OPERATION

This is a latching (self-locking) push button switch. Its operation is straightforward:

- **To turn ON:** Press the button once. The switch will lock into the ON position, and the connected device will activate. The LED will illuminate if wired accordingly.
- **To turn OFF:** Press the button again. The switch will release from the locked position, and the connected device will deactivate. The LED will turn off if wired accordingly.

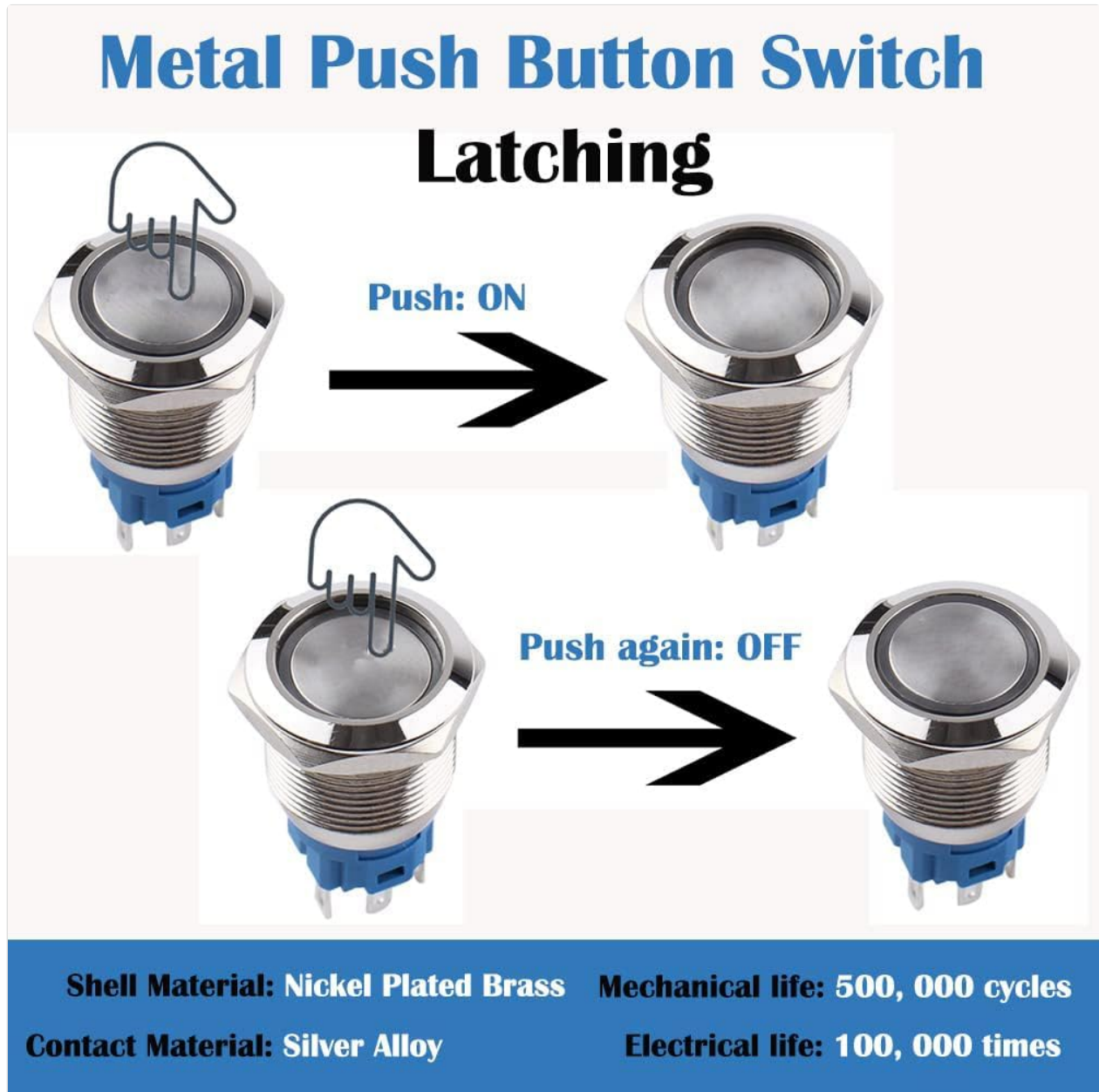


Image 7.1: This diagram illustrates the latching operation: one press turns the switch ON, and a second press turns it OFF.

## 8. MAINTENANCE

- **Cleaning:** To clean the switch, wipe it with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as these can damage the finish or internal components.

- **Inspection:** Periodically inspect the switch for any signs of physical damage, loose connections, or wear. Ensure the mounting nut remains securely tightened.
- No internal user-serviceable parts. Do not attempt to disassemble the switch.

## 9. TROUBLESHOOTING

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- **Switch Not Activating Device:**

- Check all wiring connections for proper contact and polarity.
- Verify the power supply to the switch and the connected device.
- Ensure the switch is fully pressed and latched.

- **LED Not Illuminating:**

- Check the LED's dedicated wiring for correct connections and polarity.
- Confirm the power supply to the LED is within the 12-24V range.
- Ensure the switch is in the ON position if the LED is wired to activate with the device.

## 10. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the retailer where the product was purchased or visit the official Gebildet website for contact details.