

## Gebildet E1417

# Gebildet 19mm 15A/220VAC LED Blue Latching Push Button Switch User Manual

Model: E1417

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Gebildet 19mm 15A/220VAC LED Blue Latching Push Button Switch. This all-metal switch is designed for various applications requiring a manual reset, boat reset, instrumentation, entry protection, or household appliance control. It features a solid, crisp push feedback and a comfortable blue LED light. Its IP65 waterproof rating allows for use in humid environments, and the metal shell tolerates vibrations and other harsh environmental conditions.

## 2. SAFETY INFORMATION

- Always disconnect power before installation or maintenance to prevent electric shock.
- Ensure all wiring connections are secure and correctly insulated.
- Verify that the voltage and current ratings of the switch match your application requirements.
- Installation should be performed by a qualified individual if you are unsure about electrical wiring.
- Do not exceed the specified electrical ratings (15A, 220VAC).

## 3. PRODUCT FEATURES

- **Material:** Stainless steel shell for durability and corrosion resistance.
- **Operation Type:** Latching (Push ON, Push OFF).
- **LED Indicator:** Blue LED, 220VAC.
- **Waterproof Rating:** IP65, suitable for wet or dusty environments.
- **Compact Design:** Short type with a total height of 2.5 cm, ideal for limited space installations.
- **Contact Structure:** SPST (Single Pole Single Throw), 1NO (Normally Open).
- **High Power Rating:** 15A/220VAC.

# Short Size Push Button

suit for limit space installation



Figure 1: Compact design for limited space installation.

# IP65 Waterproof



Figure 2: IP65 waterproof rating ensures protection against water and dust.

## 4. SETUP AND INSTALLATION

### 4.1 Package Contents

- 1 x Gebildet 19mm Latching Push Button Switch
- 1 x Wiring Diagram (often included with the switch)

### 4.2 Mounting

1. Ensure the mounting surface is clean and flat.
2. Drill a mounting hole with a diameter of 19mm (0.74 inches).
3. Insert the switch into the drilled hole.
4. Secure the switch with the provided nut. The recommended nut torque is 5-14 Nm.
5. The switch is suitable for panel thickness between 1-9 mm.

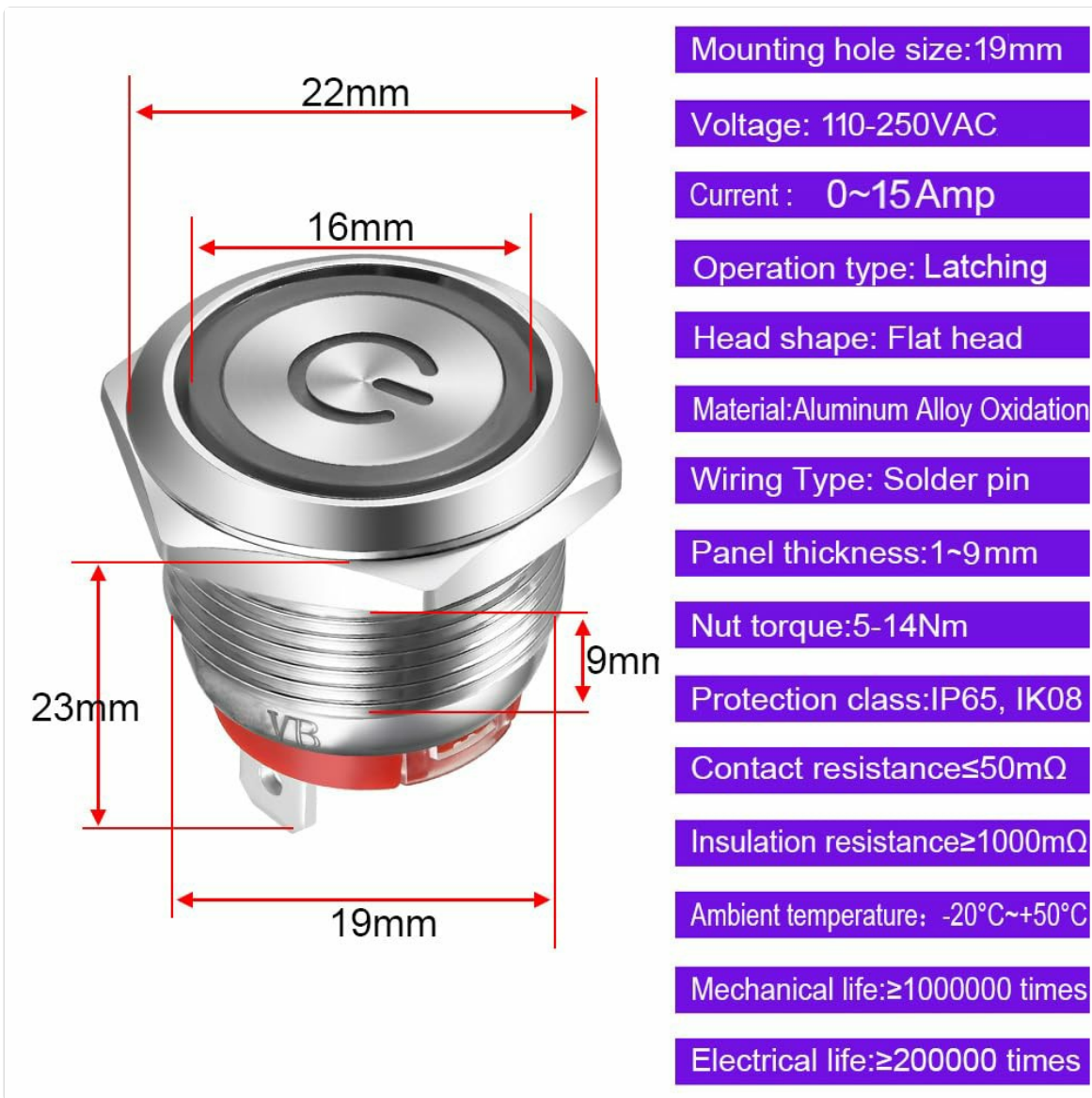


Figure 3: Detailed dimensions and specifications for mounting.

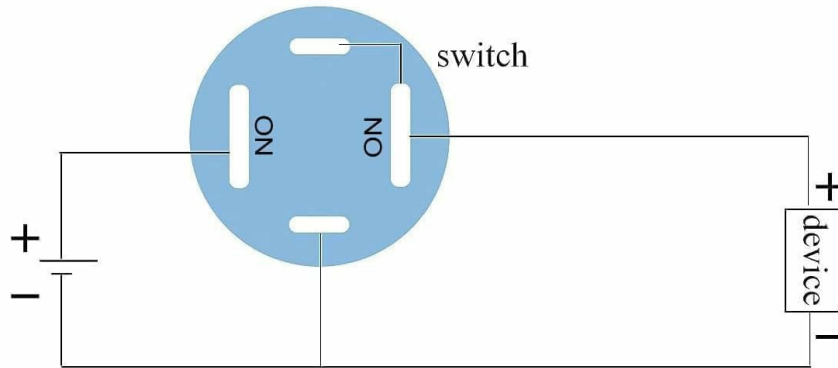
### 4.3 Wiring Instructions

The switch features 4 pins for connection. A simplified wiring diagram is provided to assist with installation. Ensure correct polarity for the LED if applicable, though the provided diagram typically shows AC connections.

- **Wiring Type:** Solder pin.
- **Terminals:** Typically two for the switch contacts (NO) and two for the LED.

# WIRING DIAGRAM (2 WAYS)

Device ON, Light ON; Device OFF, Light OFF:



Light Always ON:

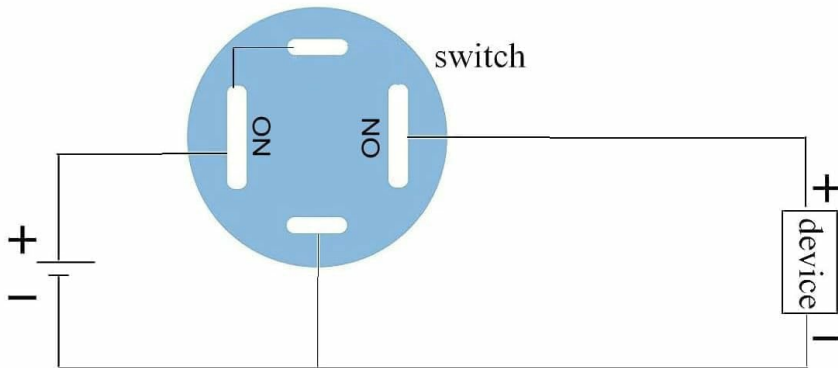


Figure 4: Wiring diagram showing two common connection methods.

**Top Diagram:** Device ON, Light ON; Device OFF, Light OFF. This configuration illuminates the LED only when the switch is activated and the device is powered.

**Bottom Diagram:** Light Always ON. This configuration keeps the LED illuminated constantly, regardless of the switch's ON/OFF state, as long as power is supplied to the LED circuit.

## 5. OPERATING INSTRUCTIONS

This is a latching push button switch. Its operation is straightforward:

- **To Turn ON:** Press the button once. The button will remain in the depressed position, and the connected device will activate. The blue LED will illuminate (if wired for simultaneous operation).
- **To Turn OFF:** Press the button again. The button will return to its original position, and the connected device will deactivate. The blue LED will turn off (if wired for simultaneous operation).



Figure 5: Visual representation of the switch in ON and OFF states.

## 6. MAINTENANCE

The Gebildet push button switch is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the switch. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear or corrosion.
- **Waterproof Feature:** The IP65 rating protects against dust and low-pressure water jets. While suitable for humid environments, avoid prolonged submersion or high-pressure water exposure.

## 7. TROUBLESHOOTING

- **Switch Not Activating Device:**
  - Check all wiring connections according to the diagram (Figure 4).
  - Ensure power supply to the switch and device is active.

- Verify the device itself is functioning correctly.

- **LED Not Illuminating:**

- Confirm the LED wiring is correct as per the diagram (Figure 4).
- Check if the power supply to the LED circuit is present.
- Ensure the switch is in the ON position if the LED is wired for simultaneous operation.

- **Switch Not Latching/Unlatching:**

- Ensure the button is pressed firmly.
- Inspect for any physical obstruction or damage to the button mechanism.

## 8. SPECIFICATIONS

<b>Manufacturer</b>	Gebildet
<b>Model Number</b>	E1417
<b>Mounting Hole Size</b>	19 mm (0.74 inches)
<b>Rated Voltage</b>	220VAC
<b>Rated Current</b>	15A
<b>Power Rating</b>	4400 Watts
<b>Operation Type</b>	Latching (Push ON, Push OFF)
<b>LED Color</b>	Blue
<b>Contact Material</b>	Silver Alloy
<b>Shell Material</b>	Stainless Steel
<b>Protection Class</b>	IP65
<b>Electrical Life</b>	≥200,000 times
<b>Mechanical Life</b>	≥1,000,000 times
<b>Ambient Temperature</b>	-20°C ~ +50°C
<b>Dimensions (L x W x H)</b>	12 x 9 x 2.3 cm
<b>Weight</b>	10 grams

## 9. WARRANTY INFORMATION

Gebildet products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Gebildet website or contact your point of purchase. Keep your purchase receipt as proof of purchase for any warranty claims.

## **10. SUPPORT**

If you encounter any issues or have questions regarding your Gebildet push button switch that are not covered in this manual, please contact Gebildet customer support through their official website or the retailer from whom you purchased the product. Provide your model number (E1417) and a detailed description of the issue for faster assistance.