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## Gebildet GS-19

# Gebildet 19mm High Head SPST Latching Push Button Switch Instruction Manual

Model: GS-19

## 1. PRODUCT OVERVIEW

The Gebildet 19mm High Head SPST Latching Push Button Switch is a durable, waterproof, and self-locking switch designed for various electrical applications. Constructed from stainless steel, it features a high head design and solder pin terminals, making it suitable for both indoor and outdoor use in demanding environments.

This switch operates with a latching mechanism: press once to turn ON, press again to turn OFF. It is rated for DC/AC 250V 3A and offers excellent mechanical and electrical life.



*Image 1: Two Gebildet 19mm High Head SPST Latching Push Button Switches. These switches feature a polished metal finish and a high-profile button, ready for installation.*

## 2. KEY FEATURES

- **High Quality Construction:** Made from stainless steel for durability and resistance to corrosion.
- **Latching Operation:** Self-locking mechanism (press ON, press again OFF) for continuous state control.
- **Waterproof Design:** IP65 rated for protection against water jets and dust, suitable for outdoor and humid conditions.
- **Impact Resistance:** IK08 rated for protection against mechanical impacts.
- **Easy Installation:** Features solder pin terminals for secure electrical connections.
- **Wide Application:** Versatile for use in automotive, marine, industrial equipment, home appliances, and medical devices.

## 3. TECHNICAL SPECIFICATIONS

<b>Rated Voltage &amp; Current</b>	DC/AC 250V 3A
<b>Material</b>	Aluminum alloy, Stainless steel
<b>Mounting Hole Diameter</b>	19 mm
<b>Contact Configuration</b>	1 NO (Normally Open)
<b>Operation Type</b>	Latching / Self-locking
<b>Front Shape</b>	High Head / Round
<b>Protection Rating</b>	IP65, IK08
<b>Contact Resistance</b>	$\leq 50\text{m}\Omega$
<b>Insulation Resistance</b>	$\geq 1000\text{m}\Omega$
<b>Dielectric Strength</b>	2000VAC
<b>Operating Temperature</b>	-20 °C to +55 °C
<b>Mechanical Life</b>	> 1,000,000 times
<b>Electrical Life</b>	> 200,000 times
<b>Wiring Type</b>	Solder Pin
<b>Panel Thickness</b>	1-11 mm
<b>Nut Torque</b>	5-14 Nm
<b>Model Number</b>	GS-19



*Image 2: Detailed diagram showing the dimensions and key specifications of the 19mm push button switch, including mounting hole size, switch type, operation type, head shape, shell material, current, voltage, wiring type, panel thickness, nut torque, protection class, and lifespan.*

## 4. SETUP AND INSTALLATION

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### 4.1 Mounting

1. Ensure the power supply is disconnected before installation.
2. Drill a circular mounting hole with a diameter of **19mm** in your panel. The panel thickness should be between 1mm and 11mm.
3. Insert the switch body into the drilled hole from the front of the panel.
4. Secure the switch in place by tightening the provided nut on the back of the panel. Apply a nut torque between 5-14 Nm.

### 4.2 Wiring

The switch uses solder pin terminals for electrical connections. Carefully solder your wires to the appropriate terminals. This switch has a 1 NO (Normally Open) contact configuration.

- Identify the terminals for the switch contacts. Typically, these are marked or can be identified by

testing continuity.

- Solder the positive and negative wires of your circuit to the respective terminals.
- Ensure all solder joints are clean, secure, and free from short circuits.

**Note:** If you are unsure about wiring, consult a qualified electrician or refer to a wiring diagram specific to your application.

## 5. OPERATING INSTRUCTIONS

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

1. **To turn ON:** Press the button once. The button will remain in the depressed position, and the circuit will be closed (ON).
2. **To turn OFF:** Press the button again. The button will return to its original position, and the circuit will be opened (OFF).

The video below demonstrates the latching operation of the switch.

Your browser does not support the video tag.

*Video 1: Demonstration of the Gebildet 19mm Latching Push Button Switch. The video shows the switch being pressed to activate a connected light, and then pressed again to deactivate it, illustrating its self-locking functionality.*

## Protection Class:IP65 & IK08



Image 3: An example of the 19mm push button switch installed on a wall panel, being pressed by a finger. This illustrates a common application for the switch, such as an access control button or doorbell.

## 6. MAINTENANCE

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

- **Cleaning:** For general cleaning, wipe the switch surface with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the metal finish.
- **Environmental Protection:** With an IP65 rating, the switch is protected against dust ingress and low-pressure water jets. It is suitable for outdoor and humid environments, but avoid prolonged submersion or high-pressure water exposure.
- **Inspection:** Periodically check the wiring connections to ensure they remain secure, especially in applications subject to vibration.

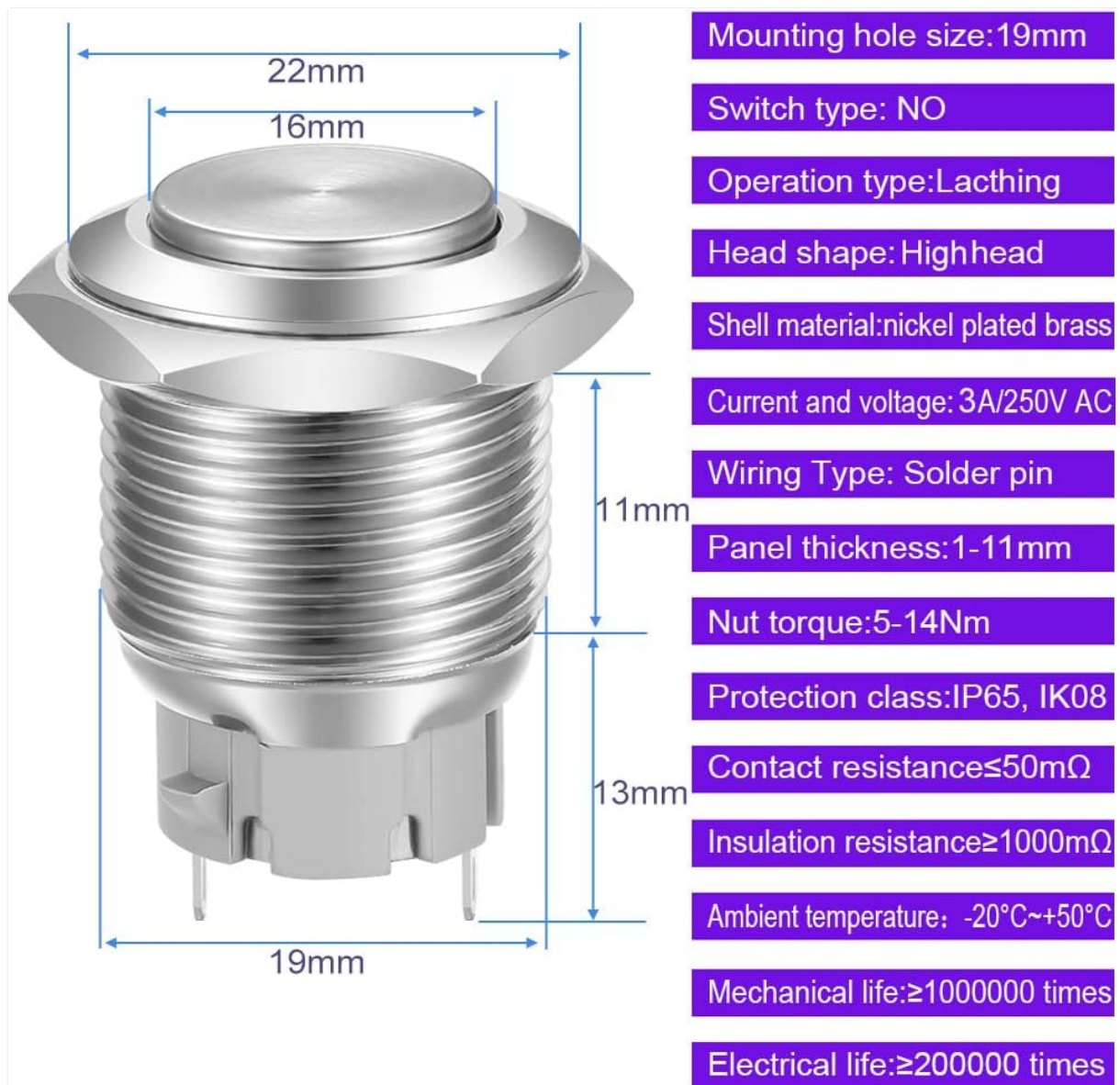


Image 4: The Gebildet 19mm push button switch shown with water splashes, highlighting its IP65 waterproof and IK08 impact resistance ratings. This indicates its suitability for use in challenging environmental conditions.

## 7. TROUBLESHOOTING

If the switch is not functioning as expected, consider the following:

- **No Power:** Check the power supply to your circuit. Ensure it is within the specified voltage and current ratings (DC/AC 250V 3A).
- **Incorrect Wiring:** Verify all solder connections are correct and secure. A loose connection or short circuit can prevent proper operation.
- **Damaged Switch:** If the switch has been subjected to excessive force or improper installation, it may be damaged. Inspect for any visible physical damage.
- **Latching Mechanism:** Confirm you are operating the latching mechanism correctly (press once for ON, press again for OFF).

If issues persist, contact Gebildet customer support for further assistance.

## 8. WARRANTY AND SUPPORT

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For warranty information, technical support, or any inquiries regarding your Gebildet 19mm High Head SPST Latching Push Button Switch, please contact the seller or Gebildet customer service directly. Refer to your purchase documentation for specific warranty terms and contact details.

You can often find support information on the official Gebildet website or through the platform where the product was purchased.