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› uxcell 10Pcs 6.2mmx6.2mm Panel PCB Momentary Tactile Tact Push Button Switch User Manual

uxcell a16112300ux0960

uxcell 6.2mmx6.2mm Panel PCB Momentary Tactile Tact Push Button Switch User Manual

Brand: uxcell | Model: a16112300ux0960

1. PRODUCT OVERVIEW

The uxcell 6.2mmx6.2mm Momentary Tactile Tact Push Button Switch is a compact electronic component designed for various applications in electronic products and household appliances. These switches feature a momentary contact, meaning they activate only while being pressed and return to their original state upon release. They are equipped with 2 pins and are designed for DIP (Dual In-line Package) through-hole mounting on Printed Circuit Boards (PCBs). Their high-precision mechanism ensures reliable operation and a long service life.



Image 1.1: A set of ten uxcell 6.2mmx6.2mm momentary tactile push button switches, showcasing their compact design and two pins for through-hole mounting.

2. TECHNICAL SPECIFICATIONS

Specification	Value
Product Name	Push Button Switch
Color	Black, Silver Tone
Terminals	2 Pins
Pin Length	4.5mm / 0.176in
Material	Plastic, Metal
Dimension (Not Included Pin)	6.2 x 6.2 x 7.2mm (L*W*H)

Specification	Value
Net Weight	3g (per 10Pcs)
Operation Mode	Push Button (Momentary)
Connector Type	Through Hole
Mounting Type	PCB Mount
Actuator Type	Push Button Switch
Unit Count	10.0 Count

3. SETUP & INSTALLATION

These tactile switches are designed for through-hole mounting on a Printed Circuit Board (PCB). Follow these steps for proper installation:

- 1. Prepare PCB:** Ensure your PCB has appropriate holes spaced for the 2-pin DIP configuration of the switch.
- 2. Align Pins:** Carefully align the two metal pins of the switch with the corresponding holes on the PCB.
- 3. Insert Switch:** Gently push the switch into the PCB until its base sits flush against the board surface.
- 4. Solder Connections:** On the underside of the PCB, solder the two pins to their respective pads. Ensure a strong, clean solder joint for reliable electrical connection. Avoid excessive heat to prevent damage to the switch or PCB.
- 5. Test Connection:** After soldering, visually inspect the connections. It is recommended to perform a continuity test to confirm proper electrical contact.

For best results, refer to your specific circuit design and PCB layout for precise placement and soldering techniques.

4. OPERATION

The uxcell tactile push button switch operates as a momentary contact switch. This means:

- Activation:** The switch makes an electrical connection (or breaks one, depending on its normal state) only when the button is physically pressed down.
- Deactivation:** The connection is released (or restored) as soon as the pressure on the button is removed, and the button returns to its original, unpressed position.

This type of switch is commonly used for input signals in microcontrollers, reset buttons, or any application requiring a temporary electrical signal.

5. CARE AND MAINTENANCE

These tactile switches are designed for durability and require minimal maintenance. To ensure their longevity and optimal performance:

- Keep Clean:** Avoid accumulation of dust, dirt, or debris around the switch mechanism. If necessary, gently clean with a soft, dry brush or compressed air. Do not use liquid cleaners directly on the switch.
- Avoid Excessive Force:** Operate the button with appropriate force. Applying excessive or continuous force beyond normal operation can reduce its lifespan.

- **Storage:** Store unused switches in a dry, cool environment, away from direct sunlight and corrosive substances.

6. TROUBLESHOOTING

If you encounter issues with the switch, consider the following common troubleshooting steps:

- **No Response:**
 - Check solder joints for cold joints or bridges. Re-solder if necessary.
 - Verify correct polarity and circuit connection if applicable to your design.
 - Ensure the switch is fully seated in the PCB holes.
- **Intermittent Operation:**
 - Inspect for loose connections or hairline cracks in the PCB traces.
 - Check for any foreign material obstructing the button's movement.
- **Button Stuck:**
 - Ensure no external components or housing are pressing against the button, preventing its return.
 - Clean any visible debris around the button's shaft.

If problems persist after these steps, the switch may be faulty and require replacement.

7. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your uxcell 6.2mmx6.2mm Panel PCB Momentary Tactile Tact Push Button Switches, please contact the manufacturer directly. Refer to the product packaging or the uxcell official website for contact details and support resources.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question