

uxcell a13062500ux0463

Uxcell 4 Pins Dip PCB Momentary Tactile Tact Push Button Switch Instruction Manual

Model: a13062500ux0463

1. INTRODUCTION

This manual provides detailed instructions for the proper use, installation, and maintenance of the **Uxcell 4 Pins Dip PCB Momentary Tactile Tact Push Button Switch**. Please read this manual thoroughly before operation to ensure safe and efficient use of the product.

The **Uxcell 4 Pins Dip PCB Momentary Tactile Tact Push Button Switch** is a momentary tact push button switch designed for various electronic applications.

2. PRODUCT FEATURES

- **Action Type:** Momentary contact
- **Pin Configuration:** 4 pins
- **Button Design:** Round black push button
- **Mounting:** Through-hole mounting
- **Dimensions:** Approximately 6mm x 6mm x 4.5mm (L*W*T)
- **Button Diameter:** Approximately 3mm
- **Material:** Plastic and Metal construction
- **Application:** Suitable for electronic products, household/office appliances, sound equipment, digital products, etc.
- **Mechanism:** High precision design for acute operation and long service life.



Figure 2.1: A collection of Uxcell 4-pin momentary tact push button switches, showing their compact size and pin configuration for PCB mounting.



Figure 2.2: Two individual Uxcell 4-pin momentary tact push button switches, highlighting their 6mm x 6mm x 4.5mm dimensions and momentary action.

3. SETUP AND INSTALLATION

The Uxcell 4-Pin Dip PCB Momentary Tactile Tact Push Button Switch is designed for through-hole mounting on Printed Circuit Boards (PCBs).

3.1. Required Tools and Materials

- Soldering Iron
- Solder wire (e.g., rosin core solder)
- Desoldering wick or pump (for removal/correction)
- Safety glasses
- PCB with appropriate through-holes

3.2. Installation Steps

1. **Prepare the PCB:** Ensure the PCB has clean, correctly sized through-holes for the switch's 4 pins.
2. **Position the Switch:** Carefully align the 4 pins of the tact switch with the corresponding holes on the PCB. Ensure the switch sits flush against the PCB surface.
3. **Secure the Switch:** While holding the switch in place, flip the PCB over. You may bend the pins slightly outwards to temporarily secure the switch before soldering.
4. **Solder the Pins:** Heat each pin and its corresponding pad on the PCB simultaneously with the soldering iron. Apply a small amount of solder to create a strong electrical and mechanical connection. Ensure solder flows evenly around the pin and pad. Avoid cold solder joints or solder bridges between pins.
5. **Inspect Connections:** Visually inspect all four solder joints to ensure they are shiny, smooth, and properly connected.
6. **Trim Excess Pins:** If necessary, use flush cutters to trim any excess pin length protruding from the solder side of the PCB.

Note: Always work in a well-ventilated area when soldering and wear appropriate personal protective equipment.

4. OPERATING INSTRUCTIONS

The Uxcell tact switch is a momentary contact switch. This means it makes an electrical connection only while the button is being pressed and breaks the connection as soon as the button is released.

4.1. Basic Operation

- To activate the switch, apply gentle pressure to the black circular button on top of the switch.
- The switch will remain in its "ON" or closed state as long as the button is depressed.
- Upon releasing the button, the switch will return to its "OFF" or open state.

4.2. Electrical Connection

The 4 pins provide stability and electrical connection. Typically, two pins are connected internally when the button is pressed, forming a momentary circuit closure. Consult your circuit diagram for specific wiring requirements.

5. MAINTENANCE

The Uxcell tact switch is designed for long service life and generally requires minimal maintenance. However, proper handling and environmental conditions are crucial for optimal performance.

5.1. Cleaning

- Keep the switch free from dust, dirt, and moisture.

- If cleaning is necessary, use a soft, dry cloth. For stubborn dirt, a cloth lightly dampened with isopropyl alcohol can be used, ensuring no liquid enters the switch mechanism. Allow to dry completely before use.
- Avoid using abrasive cleaners or solvents.

5.2. Storage

- Store switches in a cool, dry environment, away from direct sunlight and extreme temperatures.
- Keep them in their original packaging or in anti-static bags to prevent damage and contamination.

5.3. Environmental Considerations

- Avoid exposing the switch to excessive force, vibration, or impact.
- Ensure the operating environment is within the specified temperature and humidity ranges to prevent premature wear or failure.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Switch not responding (no electrical contact)	Poor solder joint Damaged switch Incorrect wiring/circuit issue	Inspect solder joints; re-solder if necessary. Replace the switch if physically damaged or unresponsive. Verify circuit connections and component placement.
Switch feels "sticky" or doesn't return to original position	Debris inside the switch Physical damage/deformation	Attempt gentle cleaning (see Maintenance section). Replace the switch.
Intermittent contact	Loose solder joint Internal wear	Re-solder connections. Replace the switch.

If the problem persists after attempting these solutions, consider replacing the switch or consulting a qualified electronics technician.

7. SPECIFICATIONS

Attribute	Value
Product Name	Tact Switch
Action Type	Momentary
Total Size (L*W*T)	6 x 6 x 4.5mm / 0.24" x 0.24" x 0.2"
Button Diameter	3mm / 0.1"
Material	Plastic, Metal
Color	Black

Attribute	Value
Net Weight	3g (for 10 pieces)
Package Content	10 x Tact Switches
Item Model Number	a13062500ux0463
Manufacturer	Uxcell
ASIN	B011XXVI80
Operation Mode	Push Button
Contact Type	Normally Open
Connector Type	Through Hole
Mounting Type	Through Hole Mount
International Protection Rating	IP54

8. WARRANTY AND SUPPORT

For information regarding warranty, returns, or technical support, please refer to the purchase platform or contact Uxcell customer service directly.

- **Brand:** [uxcell Official Store](#)
- **Manufacturer:** Uxcell
- **ASIN:** B011XXVI80

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

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

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