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**uxcell a18082900ux0404**

# uxcell 1P12T 1 Pole 12 Position Rotary Switch Selector

User Manual

## 1. Introduction

Thank you for choosing the uxcell 1P12T 1 Pole 12 Position Rotary Switch Selector. This manual provides essential information for the safe and effective installation, operation, and maintenance of your new rotary switch. Please read this manual thoroughly before using the product and retain it for future reference.

This rotary switch is designed for various electronic applications requiring multi-position selection, such as in radios, televisions, and industrial control units.

## 2. Safety Information

Please observe the following safety precautions to prevent injury or damage to the product:

- Ensure power is disconnected from the circuit before installation or maintenance.
- Only qualified personnel should perform electrical installations.
- Do not exceed the specified electrical ratings (voltage, current) of the switch.
- Avoid exposing the switch to excessive moisture, dust, or extreme temperatures.
- Handle with care to prevent damage to pins or internal components.

## 3. Product Overview

The uxcell 1P12T Rotary Switch is a single-pole, twelve-position selector switch designed for reliable circuit control. It features a robust construction suitable for various electronic and industrial applications.



**Figure 1:** Front view of the uxcell 1P12T Rotary Switch, showing overall dimensions including shaft length (11.5mm), total height (38mm), and base diameter (26.5mm).

### Key Features:

- **Contact Type:** 1 Pole 12 Position, 1 Deck
- **Mounting Hole Diameter:** 9mm / 0.35"
- **Pin Number:** 13 (1 common, 12 selectable)
- **Rotating Shaft Diameter:** 6mm / 0.24"
- **Shaft Length:** 11.5mm / 0.45"
- **Material:** Metal, Plastic

## 4. Setup and Installation

Follow these steps for proper installation of the rotary switch:

1. **Prepare Mounting Surface:** Ensure the panel or enclosure where the switch will be mounted has a clean, circular

hole with a diameter of 9mm (0.35 inches).

2. **Insert Switch:** Insert the threaded portion of the switch body through the mounting hole from the front of the panel.
3. **Secure with Nut:** Place the provided washer (if any) and nut onto the threaded portion from the rear of the panel. Tighten the nut securely to hold the switch in place. Do not overtighten.
4. **Wire Connections:** Identify the common pin and the 12 position pins. Solder or connect wires to the appropriate pins according to your circuit design. Ensure all connections are secure and properly insulated.
5. **Attach Knob (Optional):** If using a separate knob, attach it to the 6mm diameter rotating shaft.




**Figure 2:** Rear view of the rotary switch, highlighting the pin configuration and indicating the required 9mm mounting hole diameter for installation.

## 5. Operation

The uxcell 1P12T Rotary Switch operates by rotating the shaft to select one of the twelve available positions. Each position corresponds to a specific contact closure between the common pin and one of the twelve output pins.

- **Rotation:** Gently rotate the shaft clockwise or counter-clockwise to move between positions. A tactile click indicates engagement with each position.
- **Position Selection:** The switch will maintain its selected position until manually rotated to another.
- **Circuit Control:** Depending on your wiring, rotating the switch will connect the common input to the desired output circuit, enabling or disabling specific functions or selecting different signal paths.



**Figure 3:** Underside view of the rotary switch base, showing the numbered contact positions (1 through 12) and the common contact point, which facilitates wiring to specific circuit paths.

## 6. Maintenance

The uxcell 1P12T Rotary Switch is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** If necessary, gently wipe the exterior of the switch with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the switch for any signs of physical damage, loose connections, or excessive wear.

- **Environment:** Ensure the operating environment remains within specified conditions (temperature, humidity) to prevent premature wear or malfunction.

## 7. Troubleshooting

If you encounter issues with your rotary switch, refer to the table below for common problems and their solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Switch does not select position reliably. | Loose internal contacts; debris; worn mechanism. | Ensure proper installation. If issue persists, replacement may be necessary. |
| No electrical continuity. | Poor wiring connection; damaged internal contact; incorrect wiring. | Check all wire connections. Verify wiring diagram. Test continuity with a multimeter. |
| Shaft is stiff or difficult to turn. | Debris in mechanism; overtightened mounting nut; manufacturing defect. | Check mounting nut tightness. Ensure no foreign objects are obstructing rotation. |

If troubleshooting steps do not resolve the issue, contact customer support.

## 8. Specifications

| Feature | Detail |
|---|---|
| Product Name | Band Selector Rotary Switch |
| Model Number | a18082900ux0404 |
| Contact Type | 1 Pole 12 Position, 1 Deck |
| Pin Number | 13 |
| Fit Mounting Hole Diameter | 9mm / 0.35" |
| Rotating Shaft Diameter | 6mm / 0.24" |
| Shaft Length | 11.5mm / 0.45" |
| Material | Metal, Plastic |
| Color | Black |
| Item Dimensions (L x W x H) | 1.97 x 1.97 x 1.18 inches (approx. 50 x 50 x 30 mm) |
| Operation Mode | Rotary Switch |
| International Protection Rating | IP54 |

## 9. Warranty and Support

### Warranty Information:

This product is covered by the standard manufacturer's warranty. Please refer to the product packaging or the uxcell official website for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.

## Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please visit the official uxcell store or contact their customer service department. You can find more information and contact details at the uxcell Amazon Store.

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