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> [SZM-V16-5FA-61 Micro Switch User Manual](#)

QXNASU 123sh255

SZM-V16-5FA-61 Micro Switch User Manual

Model: 123sh255 | Brand: QXNASU

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the SZM-V16-5FA-61 Micro Switch. Please read this manual thoroughly before installation and operation to ensure proper functionality and to prevent damage or injury.

The SZM-V16-5FA-61 is a compact, high-precision micro switch designed for various electrical applications requiring reliable on/off switching. It features a 3-pin configuration, a 16A current rating, and is suitable for 250VAC circuits.

2. SAFETY INFORMATION

WARNING: Electrical components can cause electric shock or fire if not handled properly. Always follow safety guidelines.

- Ensure power is disconnected before installing, wiring, or performing any maintenance on the switch.
- Only qualified personnel should perform electrical installations.
- Do not exceed the specified voltage (250VAC) or current (16A) ratings.
- Protect the switch from moisture, dust, and extreme temperatures.
- Verify all connections are secure and correct before applying power.

3. PRODUCT FEATURES

- **Model:** SZM-V16-5FA-61
- **Current Rating:** 16 Amps
- **Voltage Rating:** 250VAC
- **Connector Type:** 3-pin
- **Contact Type:** Normally Open (NO)
- **Operation Mode:** Manual
- **Mounting Type:** Panel Mount
- **Contact Material:** Metal
- **Circuit Type:** 1-way

- **Terminal:** Blade



Figure 3.1: SZM-V16-5FA-61 Micro Switch. This image displays the SZM-V16-5FA-61 micro switch. It is a black rectangular component with three metal pins extending from one side and a small metal roller lever on the top. The switch body has markings indicating its model number, voltage, and current ratings.

4. SETUP AND INSTALLATION

The SZM-V16-5FA-61 micro switch is designed for panel mounting and features a 3-pin blade terminal for electrical connections.

4.1 Mounting

1. Identify the desired mounting location on your panel or device.
2. Ensure adequate space for the switch body and its lever mechanism.
3. Secure the switch using appropriate fasteners through the mounting holes provided on the switch body. Ensure it is firmly seated to prevent movement during operation.

4.2 Wiring

The switch has three blade terminals. Refer to the markings on the switch body for specific pin functions (e.g., Common, Normally Open, Normally Closed). For a Normally Open (NO) configuration, connect your circuit to the Common and Normally Open terminals.

1. Before wiring, ensure all power sources are disconnected.
2. Connect the appropriate wires to the blade terminals. Ensure connections are tight and secure to prevent arcing or loose contacts.
3. Verify wiring against your circuit diagram.

5. OPERATING INSTRUCTIONS

The SZM-V16-5FA-61 is a momentary action micro switch. It operates manually via its short wheel lever.

- **Activation:** When the short wheel lever is depressed or actuated, the internal contacts change state. For a Normally Open (NO) switch, the circuit will close (turn ON) when the lever is actuated.

- **Deactivation:** When the pressure on the lever is released, the switch returns to its original state, and the circuit will open (turn OFF).

Ensure the mechanism actuating the switch lever is properly aligned and applies sufficient force for reliable operation without causing damage to the lever or switch body.

6. MAINTENANCE

The SZM-V16-5FA-61 micro switch is designed for durability and requires minimal maintenance. However, periodic checks can extend its lifespan and ensure reliable operation.

- **Cleaning:** Keep the switch free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically inspect the switch for any signs of physical damage, wear on the lever, or corrosion on the terminals.
- **Connections:** Ensure all electrical connections remain tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

7. TROUBLESHOOTING

If the micro switch is not functioning as expected, consider the following common issues and solutions:

- **Switch Not Actuating:**
 - Check if the mechanical actuator is properly engaging the switch lever.
 - Ensure the lever is not obstructed or damaged.
- **Intermittent Operation:**
 - Verify all wiring connections are secure and free from corrosion.
 - Check for excessive vibration in the mounting area.
- **No Electrical Response:**
 - Confirm power is supplied to the circuit.
 - Check for correct wiring according to the circuit diagram and switch terminal markings.
 - Test the switch with a multimeter to confirm continuity when actuated.
- **Overheating/Burning Smell:**
 - Immediately disconnect power.
 - This indicates an overload or short circuit. Verify the current draw of the connected load does not exceed 16A.
 - Inspect for damaged insulation or shorted wires.

If issues persist after troubleshooting, consider replacing the switch or consulting a qualified electrician.

8. SPECIFICATIONS

Specification	Value
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Specification	Value
Model Number	SZM-V16-5FA-61
Brand	QXNASU
Operation Mode	Manual
Current Rating	16 Amps
Contact Type	Normally Open
Connector Type	3-pin
Terminal	Blade
Circuit Type	1-way
Mounting Type	Panel Mount
Contact Material	Metal
Number of Positions	1
Wattage	4000 Watts

9. WARRANTY AND SUPPORT

Warranty information for this product is not explicitly provided in the available documentation. For details regarding returns or specific product guarantees, please refer to the retailer's return policy or contact the seller directly.

For technical support or inquiries, please contact the manufacturer, QXNASU, through their official channels or the point of purchase.