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› Aexit KSD301 80C Normal Closed 250V AC Ceramic Thermostat Instruction Manual

Aexit KSD301

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Aexit KSD301 80C Normal Closed Ceramic Thermostat. This device is designed to function as a temperature control switch, commonly found in various household appliances such as coffee makers, water heaters, electric cookers, microwave ovens, and automatic toasters. Please read these instructions thoroughly before installation and operation.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Always disconnect power before installation or servicing.

- Installation should only be performed by qualified personnel or under the supervision of a professional.
- Ensure the power supply matches the thermostat's voltage and current ratings (250V AC, 10A).
- Avoid contact with live electrical components.
- Do not operate the thermostat in environments exceeding its specified temperature limits.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.

3. PRODUCT OVERVIEW

The Aexit KSD301 is a compact, ceramic-insulated bimetallic thermostat designed for temperature regulation. It operates as a Normally Closed (NC) switch, meaning the electrical circuit is complete (closed) under normal operating temperatures and opens when the activation temperature is reached. Its ceramic construction provides enhanced insulation and durability.



This image displays two Aexit KSD301 ceramic thermostats. Each thermostat features a silver-toned metal disc with two flat, gold-colored electrical terminals extending from its base. The metal disc is marked with 'KSD301 10A250V 80°C'. The thermostats are designed for surface mounting, indicated by the two small holes on the metal flange.

4. SETUP AND INSTALLATION

1. **Power Disconnection:** Before beginning any installation, ensure the power supply to the appliance or circuit is completely disconnected.
2. **Mounting:** The thermostat features mounting holes on its metal flange. Securely attach the thermostat to the surface requiring temperature monitoring using appropriate fasteners. Ensure good thermal contact between the thermostat's metal body and the surface.
3. **Wiring:** Connect the thermostat in series with the load (e.g., heating element) that it will control. The KSD301 is a two-terminal device. Ensure correct wiring according to the appliance's electrical diagram.
4. **Verification:** After installation, double-check all connections for security and proper insulation.
5. **Power Restoration:** Restore power to the appliance and test the thermostat's function.

5. OPERATING PRINCIPLES

The KSD301 thermostat operates based on a bimetallic disc that responds to temperature changes. This specific model is a **Normal Closed (NC)** type with an action temperature of **80°C (176°F)**.

- **Below 80°C:** The thermostat's contacts remain closed, allowing electrical current to flow through the circuit.
- **At 80°C:** When the surface temperature reaches 80°C, the bimetallic disc snaps open, breaking the electrical circuit and stopping the power flow to the controlled device.
- **Automatic Reset:** As the temperature of the surface cools down by approximately 5°C (to about 75°C), the bimetallic disc automatically resets, closing the contacts and restoring power to the circuit.

This automatic reset feature makes it suitable for applications requiring continuous temperature regulation within a specific range.

6. MAINTENANCE

The Aexit KSD301 thermostat is designed for long-term, maintenance-free operation. No user-serviceable parts are inside the unit.

- Periodically inspect the thermostat and its connections for any signs of damage, corrosion, or loose wiring.
- Keep the thermostat's surface clean and free from dust or debris that could impede proper heat transfer.
- If the thermostat appears damaged or is not functioning correctly, it should be replaced. Do not attempt to repair it.

7. TROUBLESHOOTING

If you experience issues with your appliance after installing the KSD301 thermostat, consider the following:

- **Appliance Not Heating/Operating:**
 - Check all electrical connections to ensure they are secure.
 - Verify that the thermostat is correctly wired in series with the load.
 - Confirm that the ambient temperature is below the 80°C action temperature, allowing the NC contacts to be closed.
- **Appliance Overheating:**
 - The thermostat may be faulty and stuck in the closed position. Disconnect power and test the thermostat's continuity at room temperature (should be closed) and when heated above 80°C (should be open). If it fails to open, replace the unit.
- **Intermittent Operation:**
 - Poor thermal contact between the thermostat and the monitored surface can lead to inaccurate temperature sensing. Ensure the thermostat is securely mounted.

If troubleshooting steps do not resolve the issue, consult a qualified technician.

8. TECHNICAL SPECIFICATIONS

Specification	Detail
Product Name	Ceramic Thermostat
Model No.	KSD301
Action Type	Normal Closed (NC)

Action Temperature	80°C / 176°F
Voltage / Current Rating	10A AC 250V
Size (Each)	3.8 x 1.2cm (1.50" x 0.47") (L*T)
Material	Metal, Ceramic
Color	White, Silver Tone
Net Weight (approx.)	12g (for 2 pieces)
Package Content	2 x Ceramic Thermostat

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Aexit KSD301 Ceramic Thermostat, please refer to the purchase documentation or contact your retailer. General product support can often be found through the manufacturer's official website or by contacting their customer service department.

ASK A QUESTION ABOUT THIS MANUAL

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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.

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