

Aexit modle

Aexit B100K Variable Resistors Instruction Manual

1. PRODUCT OVERVIEW

The Aexit B100K variable resistor is a 100K ohm, 3-terminal, single linear (Type B) potentiometer designed for various electronic applications, commonly used as volume controls or for adjusting other electrical device parameters. It features a knurled shaft for easy manual operation and includes a stop point to prevent over-rotation.



This image displays the Aexit B100K variable resistor, highlighting its knurled shaft for easy adjustment and the three terminals for electrical connection.

2. KEY FEATURES

- **Resistance Value:** 100K ohm
- **Adjustment Type:** Top Adjustment
- **Type:** Single Linear (Type B)
- **Shaft:** Knurled for easy grip
- **Terminals:** 3 terminals for electrical connection
- **Stop Point:** Integrated stop point to limit rotation
- **Material:** Metal and electronic components

3. SETUP AND INSTALLATION

Proper installation is crucial for the correct function of the potentiometer. Follow these general guidelines:

1. **Identify Terminals:** A standard potentiometer has three terminals. Typically, the two outer terminals connect to the full resistance range, and the center terminal is the wiper output.
2. **Mounting:** Insert the potentiometer shaft through the designated mounting hole on your device's panel. Secure it using the provided nut and washer (if applicable) on the mounting thread. The mounting thread diameter is 7mm.
3. **Wiring:** Connect the terminals according to your circuit diagram. For volume control, the input signal is usually connected to one outer terminal, ground to the other outer terminal, and the output signal is taken from the center wiper terminal.
4. **Knob Attachment:** Once mounted, attach a compatible knob to the knurled shaft (6mm diameter) for manual adjustment.

Note: Always ensure power is disconnected from the circuit before performing any wiring or installation to prevent electrical shock or damage to components.

4. OPERATING INSTRUCTIONS

Operating the Aexit B100K potentiometer is straightforward:

- **Rotation:** Rotate the knob attached to the knurled shaft clockwise or counter-clockwise to adjust the resistance.
- **Resistance Change:** As the shaft is rotated, the resistance between the center wiper terminal and each outer terminal changes. For a linear (Type B) potentiometer, the resistance changes proportionally to the angle of rotation.
- **Application:** In audio applications, rotating the knob typically increases or decreases the volume. In other circuits, it can control voltage, current, or other parameters depending on its integration.

5. MAINTENANCE

The Aexit B100K variable resistor is a durable component requiring minimal maintenance. Consider the following:

- **Cleaning:** Keep the potentiometer free from dust and debris. A soft, dry brush or compressed air can be used for cleaning. Avoid using liquid cleaners directly on the component.
- **Environmental Conditions:** Store and operate the potentiometer in a dry environment, away from excessive moisture, extreme temperatures, and corrosive substances to prevent damage and ensure longevity.
- **Physical Inspection:** Periodically check for any loose connections or physical damage to the terminals or shaft.

6. TROUBLESHOOTING

If you encounter issues with your potentiometer, consider these common troubleshooting steps:

- **No Signal/Erratic Behavior:**
 - Check all wiring connections for proper contact and ensure no shorts.
 - Verify the resistance value with a multimeter across the outer terminals to ensure it matches the specified 100K ohm.
 - Test the wiper's resistance change by rotating the shaft while measuring resistance between the center terminal and an outer terminal. It should change smoothly.
- **Scratchy Sound (Audio Applications):** This often indicates a dirty or worn-out resistive track. While cleaning might help temporarily, replacement is usually the long-term solution.
- **Shaft Stiffness/Looseness:** Ensure the mounting nut is appropriately tightened. If the shaft itself is stiff or excessively loose, the internal mechanism might be damaged, requiring replacement.

7. SPECIFICATIONS

Specification	Value
Product Name	Potentiometer
Resistance Value	100K ohm
Adjustment Type	Top Adjustment
Type	Single Linear (Type B)
Features	Knurled Shaft
Shaft Diameter	6mm / 0.2"
Shaft Length	13mm / 0.51"
Mounting Thread Diameter	7mm / 0.3"
Base Size (D*H)	16 x 7.3mm / 0.63" x 0.29"
Total Height	29mm / 1.14"
Net Weight (per unit)	29g (approx. for 4 units, so ~7.25g per unit)
Material	Metal, Electronic Parts
Model Number	modle

8. WARRANTY AND SUPPORT

For information regarding warranty, returns, or technical support for your Aexit B100K variable resistors, please refer to the seller's policies or contact the point of purchase. Specific warranty details are not provided in this manual.

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

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