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## Aexit AV-162-1C25C

# Aexit AV-162-1C25C Snap Switch Instruction Manual

Model: AV-162-1C25C

## INTRODUCTION

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This manual provides essential information for the safe and effective use of the Aexit AV-162-1C25C Snap Switch. This device is a momentary micro limit switch designed for industrial control applications, specifically for detecting the movement or presence of mechanical parts. Please read these instructions thoroughly before installation and operation.

## SAFETY INFORMATION

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- Always disconnect power to the circuit before attempting any installation, wiring, or maintenance procedures.
- Installation and wiring should be performed by qualified personnel familiar with electrical systems and safety practices.
- Ensure all wiring complies with local and national electrical codes and regulations.
- Verify that the operating voltage and current ratings of your application do not exceed the specifications of this switch to prevent damage or hazards.
- Do not use this switch in applications where failure could result in serious injury or property damage without redundant safety measures.

## PRODUCT OVERVIEW

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The Aexit AV-162-1C25C is a compact snap-action limit switch featuring a plunger actuator and SPDT (Single Pole Double Throw) contact configuration. It is designed to provide a momentary electrical signal when its plunger is actuated, making it suitable for various control and sensing applications.



This image displays the Aexit AV-162-1C25C Snap Switch. It clearly shows the three metal terminals for electrical connections and the red plunger mechanism. Visible text on the switch body indicates key electrical ratings: 16A 1/2HP 125 250VAC, 0.6A 125VDC, 0.3A 250VDC, and the model number AV-16-1C25C.

## SPECIFICATIONS

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Feature	Detail
Product Name	Micro Limit Switch
Country of Manufacture	CHINA
Material	Plastic, Metal
Net Weight	8g
Contact Configuration	1NO, 1NC (SPDT)
Rated Voltage (DC)	0.6A 125V, 0.3A 250V
Rated Voltage (AC)	16A 1/2HP 125V, 250V
Body Size (L*W)	16 x 28mm (0.63" x 1.1")
Actuator Action	Momentary
Mounting Type	Snap In Mount
Switch Style	Limit Switch

## INSTALLATION

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- Mounting:** Securely mount the switch in the desired position using appropriate fasteners through the mounting holes. Ensure the plunger mechanism is aligned correctly with the moving part it is intended to detect. The switch should be mounted in a stable location free from excessive vibration.
- Wiring:** Identify the three terminals on the switch. These typically correspond to Common (C), Normally Open (NO), and Normally Closed (NC). The switch features a SPDT (Single Pole Double Throw) configuration.
  - Connect the power source (input) to the **Common (C)** terminal.
  - Connect the load that should be ON when the switch is *not* actuated (plunger released) to the **Normally Closed (NC)** terminal.
  - Connect the load that should be ON when the switch *is* actuated (plunger pressed) to the **Normally Open (NO)** terminal.

Always refer to the wiring diagram of your specific application for correct connections and ensure proper insulation of all wires.

- Voltage Verification:** Before applying power, double-check that the connected voltage and current do not exceed the switch's rated specifications (DC 0.6A 125V, DC 0.3A 250V; AC 16A 1/2HP 125V, 250V).
- Testing:** Carefully apply power to the circuit and test the switch's operation to ensure it functions as intended. Observe the plunger actuation and the corresponding electrical response.

## OPERATION

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The AV-162-1C25C is a momentary switch. This means that its contacts change state only while the plunger is physically pressed. When the plunger is pressed, the connection between the Common (C) and Normally Closed (NC) terminals breaks, and a connection is made between the Common (C) and Normally Open (NO) terminals. Upon release of the plunger, the internal contacts return to their original, normal state (C-NC connected, C-NO disconnected). This functionality makes it ideal for applications requiring a temporary signal or action, such as

push-button controls or limit detection where the signal is only active while the limit is reached.

## MAINTENANCE

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- **Cleaning:** Keep the switch free from dust, dirt, and debris. Use a dry, soft cloth for cleaning. Avoid using solvents, abrasive cleaners, or liquids that could enter the switch mechanism.
- **Inspection:** Periodically inspect the switch for any signs of wear, damage, or loose electrical connections. Check the plunger mechanism for smooth operation and ensure it is not obstructed.
- **Environmental Conditions:** Ensure the switch operates within its specified environmental conditions (temperature, humidity) to prevent premature failure and ensure reliable performance.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Switch not actuating mechanically	Plunger not fully depressed; Mechanical obstruction; Incorrect mounting alignment	Adjust mounting position to ensure full plunger travel; Clear any obstructions; Realign switch with moving part
No electrical response when actuated	Incorrect wiring; Loose electrical connections; Overload or short circuit; Faulty switch contacts	Review wiring diagram and correct connections; Secure all terminal connections; Check circuit for overload/short; Test switch with multimeter and replace if faulty
Intermittent operation	Loose connections; Contaminated contacts; Excessive vibration; Worn internal mechanism	Secure all wiring; If safe and accessible, inspect/clean contacts (power off); Reduce vibration in mounting area; Replace switch if internal wear is suspected
Switch feels stiff or sticky	Accumulation of dirt/debris; Mechanical damage; Internal spring issue	Clean plunger area; Inspect for physical damage; Replace switch if internal mechanism is compromised

## WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Aexit AV-162-1C25C Snap Switch, please refer to the retailer or manufacturer's official website where the product was purchased. It is recommended to keep your purchase receipt or proof of purchase for any warranty claims or support inquiries.