The switch on the distribution box cannot be closed



Overview

The float carries one mercury switch and the vane also carries another mercury switch. Normally, the casing is filled with oil and the mercury switches are open.

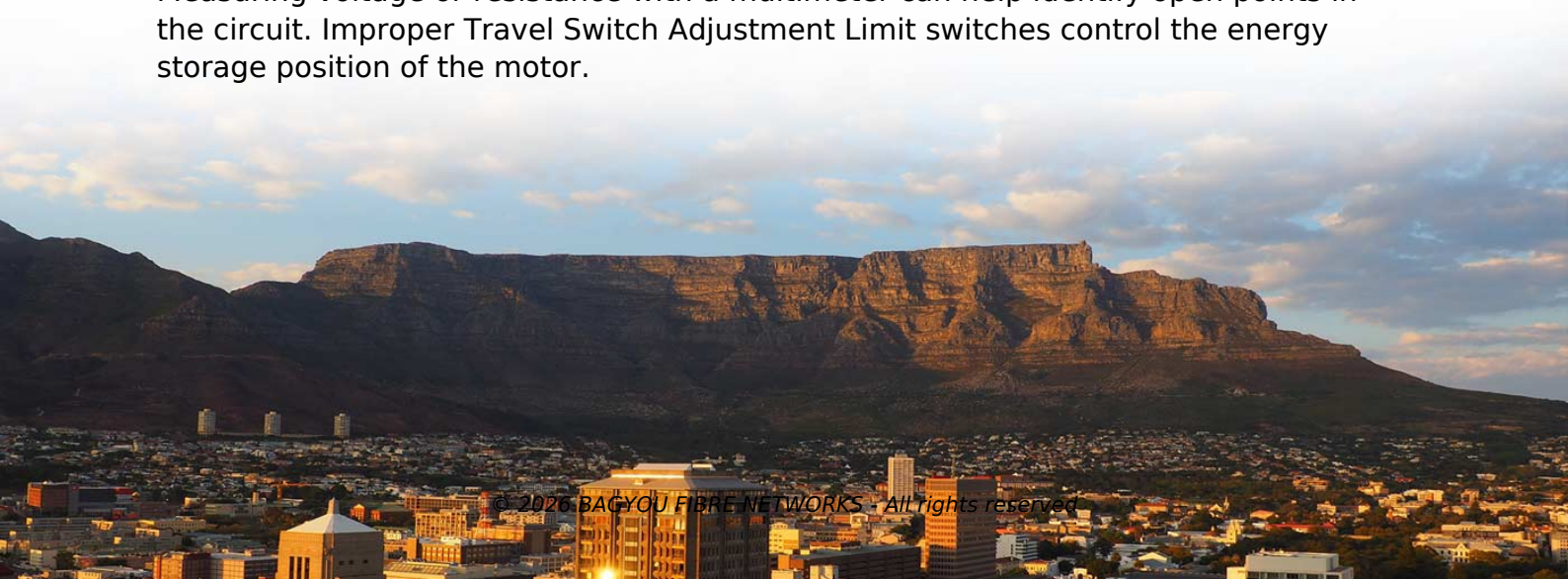
Key Takeaways

A switch in a distribution box may fail to close due to mechanical misalignment, energy storage issues, or motor faults, and should be diagnosed carefully following safety procedures.

Common Causes

Energy Storage Failure In high-voltage or motorized switches, the switch may rely on stored mechanical energy to close. If the energy storage mechanism is not fully charged or has failed, the switch cannot close, preventing normal power distribution. Control Switch or Open Circuit Fault Damage to the control switch or a disconnection in the control circuit can prevent the switch from operating.

Symptoms include the motor not rotating and no voltage at the motor terminals. Measuring voltage or resistance with a multimeter can help identify open points in the circuit. Improper Travel Switch Adjustment Limit switches control the energy storage position of the motor.



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If the travel switch is set too high or too low, the mechanism may either not stop or stop prematurely, preventing the switch from closing. Manual adjustment of the energy storage mechanism may be required to find the correct position. Motor Failure Burned motor windings, worn carbon brushes, or other motor defects can prevent the switch from closing.

Signs include unusual smells, smoke, or the motor not rotating despite voltage being present. Testing the motor with a multimeter or replacing it with a known good motor can confirm this issue.

Safety Considerations

Always isolate the distribution box from its supply before attempting any inspection or repair. Use lockout/tagout (LOTO) procedures to ensure the circuit remains de-energized. Only qualified personnel should perform troubleshooting or repairs on high-voltage or motorized switches.

Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection, when working inside the distribution box.

Recommended Steps

Verify that the distribution box is fully isolated and locked out. Inspect the switch mechanism for visible mechanical obstructions or misalignment. Check the energy storage system and manually store energy if safe to do so.

Test the control circuit for continuity and proper voltage. Inspect the motor for signs of failure and measure resistance across windings. Adjust the travel switch limits carefully to ensure proper operation.

After repairs, test the switch operation under controlled conditions before re-energizing the system. Following these steps ensures both safe operation and proper diagnosis of the switch fault, minimizing the risk of electrical hazards or equipment damage.

Article Content

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How to solve the problem of distribution box?

Cables, connectors, switches, etc. can be inspected. Repair or replace: According to the specific situation of the fault, repair or replace the faulty components or

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