

YAVIS YAVIS DC12v-60KG

YAVIS 60kg (135lbs) DC 12V Magnetic Electric Lock Instruction Manual

Model: YAVIS DC12v-60KG

Overview	Safety Information	Package Contents	Specifications	Setup & Installation	Operation
	Maintenance	Troubleshooting	Warranty & Support		

1. PRODUCT OVERVIEW

The YAVIS 60kg (135lbs) DC 12V Magnetic Electric Lock is a robust electromagnetic locking device designed for various access control systems. It provides a secure and efficient solution for controlling door access in commercial and residential environments. This lock operates in a fail-safe mode, meaning it unlocks when power is removed, ensuring safety during power outages. Its durable construction, anti-corrosion properties, and waterproof design make it suitable for a wide range of applications.

2. SAFETY INFORMATION

- Ensure all power is disconnected before installation or maintenance to prevent electrical shock.
- Installation should be performed by qualified personnel or under professional supervision.
- Verify correct voltage (DC 12V) and current ratings before connecting the power supply. Incorrect voltage can damage the device.
- Do not expose the lock to extreme temperatures or humidity beyond specified operating conditions.
- This device is designed for security purposes; however, no security system is foolproof. Regular checks are recommended.

3. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all items are present and undamaged:

- 1 x YAVIS 60kg (135lbs) Electric Magnetic Lock
- 1 x Armature Plate
- 1 x Hexagonal Key
- 1 x Screw Kit (for installation)
- 1 x User Manual (this document)

4. TECHNICAL SPECIFICATIONS

Model	YAVIS DC12v-60KG
Holding Force	60 kg (135 lbs)
Operating Voltage	DC 12V
Operating Current	0.11A - 0.15A
Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Operating Humidity	0% ~ 90% (non-condensing)
Unlock Time	≤ 1 second
Operating Mode	NC (Normally Closed) / Fail-Safe
Lock Body Dimensions (L x W x H)	81 x 42 x 25 mm
Armature Plate Dimensions (L x W x H)	75 x 36 x 10 mm
Material	Aluminum Alloy
Special Features	Anti-corrosion, Integrated Voltage Suppressor, Waterproof
Recommended Applications	Wood doors, Glass doors, Metal doors, Fireproof doors, Drawers, Cabinets

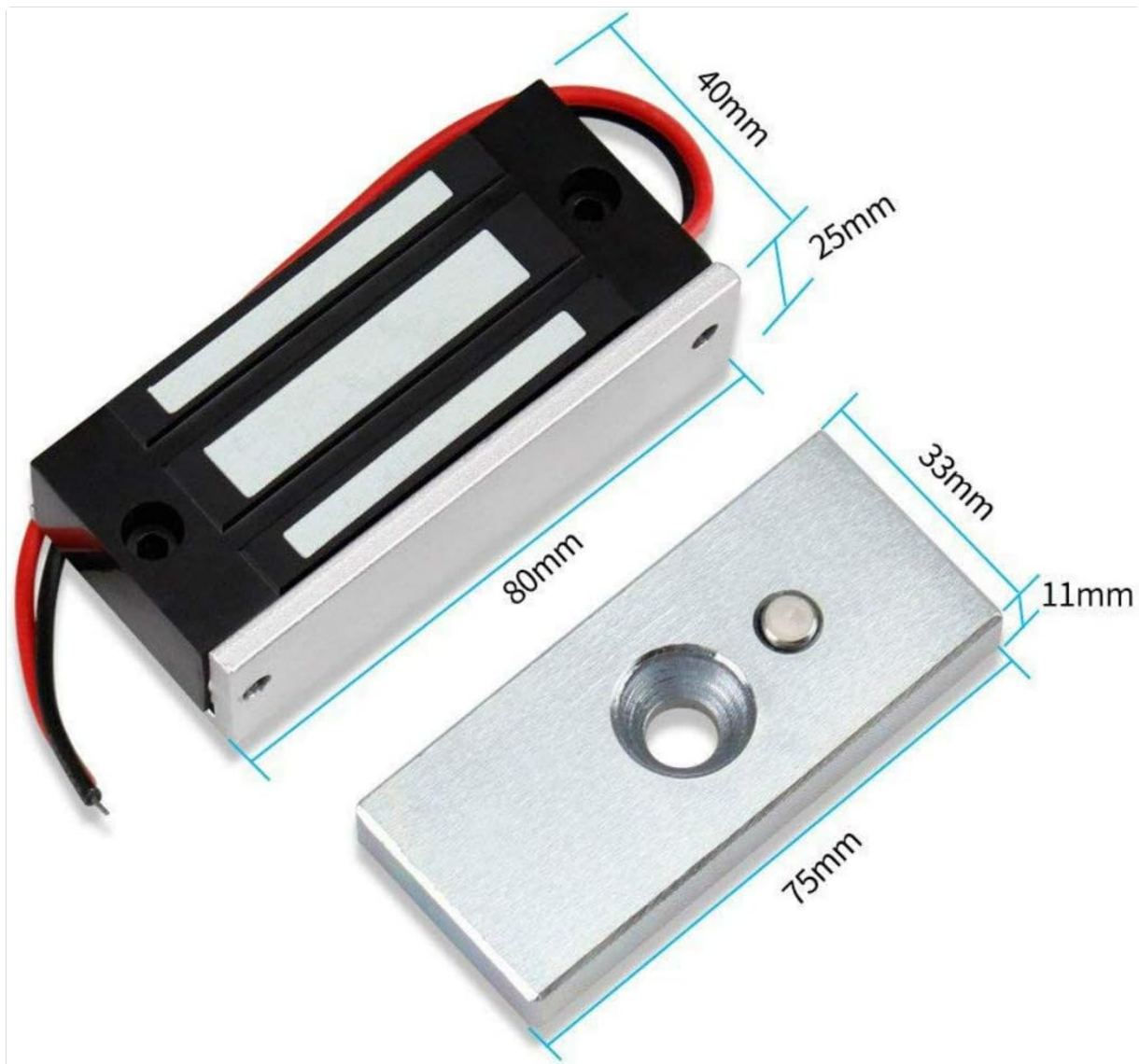


Image 1: Detailed dimensions of the magnetic lock body and its armature plate. The lock body measures 81mm x 42mm x 25mm, and the armature plate measures 75mm x 36mm x 10mm.

5. SETUP & INSTALLATION

The YAVIS magnetic lock is designed for straightforward installation. No specialized tools are typically required beyond basic hand tools. Ensure the mounting surface is clean and secure.

5.1 Mounting the Lock

The lock consists of two main parts: the electromagnetic lock body and the armature plate. The lock body is typically mounted on the door frame, and the armature plate is mounted on the door itself, ensuring they align perfectly when the door is closed.

- **Disassembly:** The outer shell of the lock body can be disassembled to access mounting holes for anti-theft screws.
- **Placement:** Position the lock body and armature plate to ensure proper alignment and maximum contact surface when the door is closed.
- **Securing:** Use the provided screw kit to securely fasten both the lock body to the door frame and the armature plate to the door. Ensure the screws are tightened using the hexagonal key.

Product Installation

◇The shell can be disassembled and used for anti-theft screw. The fixed magnetic body, suitable for installation of small door. A screw hole is fixedly arranged in the casing.

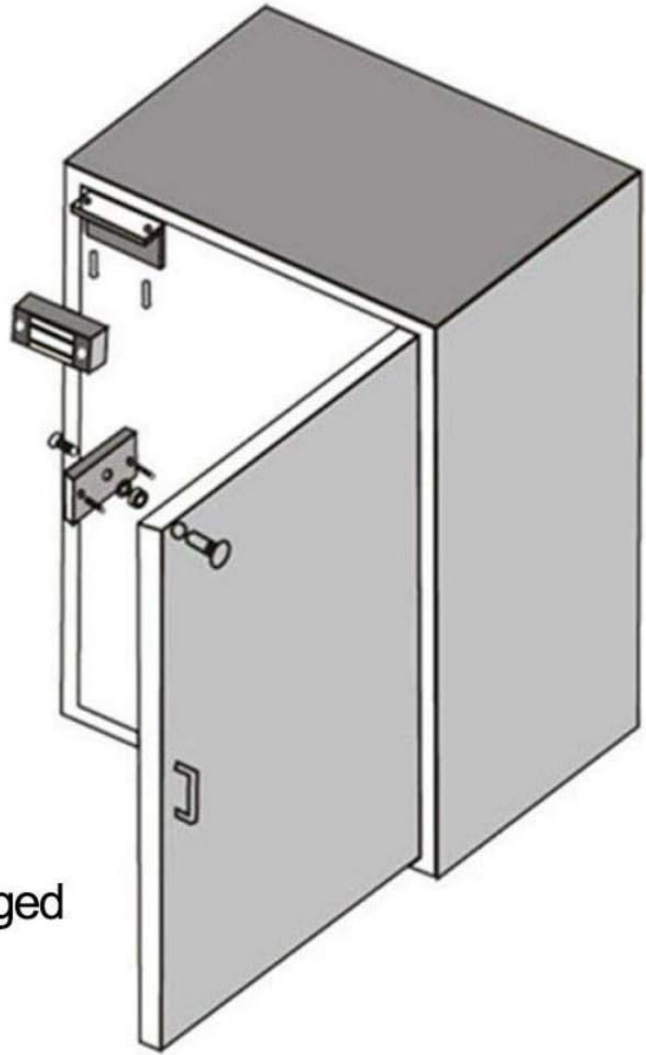


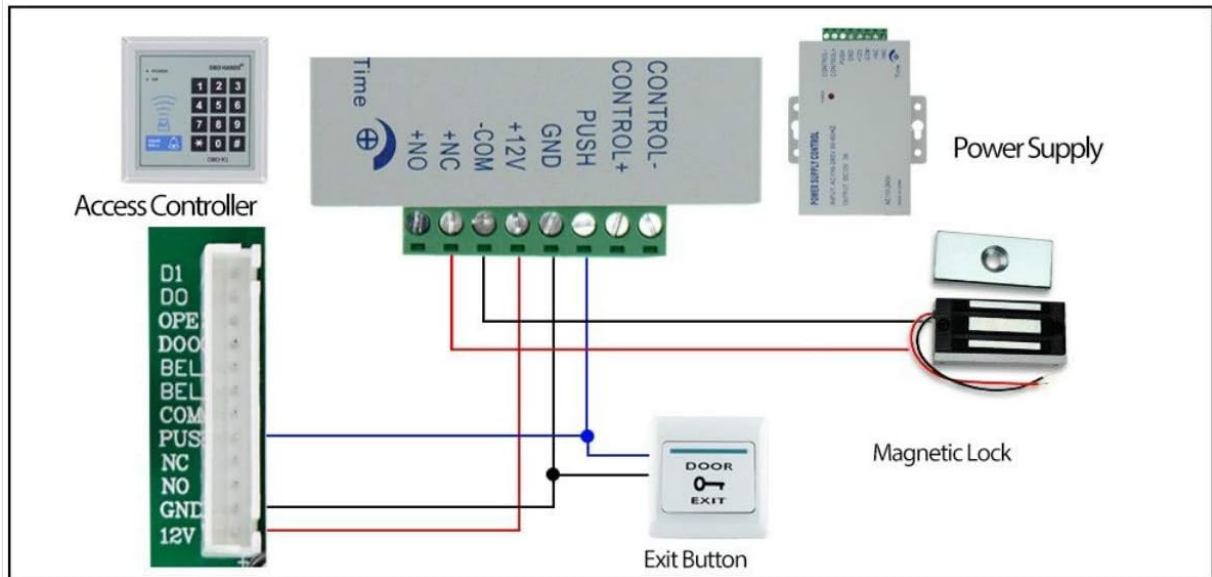
Image 2: Illustration of the magnetic lock installation on a small door or cabinet. The diagram shows the lock body mounted on the frame and the armature plate on the door, with a screw hole fixedly arranged in the casing.

5.2 Wiring Diagram

Refer to the wiring diagram below for connecting the magnetic lock to an access control system. Ensure all connections are secure and correctly polarized.

- Connect the **Red wire** from the magnetic lock to the **NC (Normally Closed) terminal** of your access controller or power supply.
- Connect the **Black wire** from the magnetic lock to the **COM (Common) terminal** of your access controller or power supply.
- **Important Note:** The access controller, power supply, and exit button shown in the diagram are not included with the magnetic lock and must be purchased separately.

Wiring Diagram



Warm Note: 1. Red to NC, Black to COM; 2. The access controller, power supply and exit button in above picture are not including in the package.

Image 3: Wiring diagram illustrating how to connect the magnetic lock to an access control system. It shows connections to an access controller, power supply, and an exit button. The red wire connects to NC, and the black wire connects to COM.



Image 4: Detailed view highlighting the aluminum alloy material and the internal structure of the lock, including the inner six-angle screw design for enhanced security.

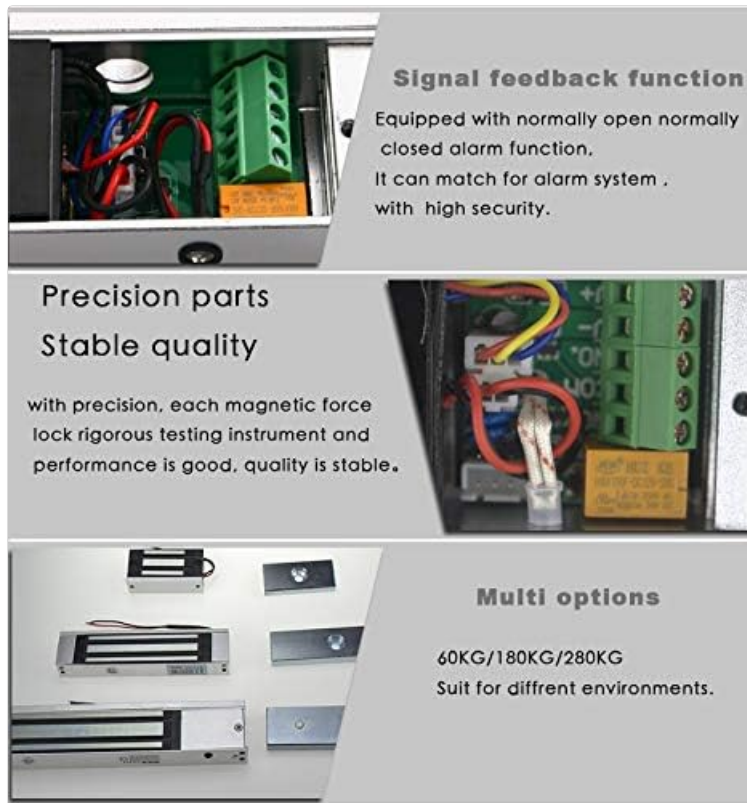


Image 5: This image illustrates the signal feedback function for alarm systems, the precision of internal components ensuring stable quality, and mentions multi-options for different holding forces (60KG/180KG/280KG), though this specific model is 60KG.

6. OPERATING INSTRUCTIONS

The YAVIS magnetic lock operates in a Fail-Safe (NC) mode, which means:

- **Locked State:** The lock remains engaged and the door is secured when electrical power (DC 12V) is continuously supplied to the lock.
- **Unlocked State:** The lock disengages and the door can be opened when the electrical power supply to the lock is interrupted or removed. This is a safety feature, allowing egress during power failures.
- **Integration:** When integrated with an access control system, the lock will be controlled by the system's commands (e.g., card reader, keypad, exit button) to momentarily cut power and unlock the door.

7. MAINTENANCE

To ensure optimal performance and longevity of your YAVIS magnetic lock, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically wipe the surfaces of the lock body and armature plate with a soft, dry cloth to remove dust and debris. Avoid abrasive cleaners.
- **Check Connections:** Annually inspect all electrical wiring and connections for signs of wear, corrosion, or looseness. Ensure they are secure.
- **Alignment Check:** Verify that the lock body and armature plate remain perfectly aligned when the door is closed. Misalignment can reduce holding force and cause premature wear.
- **Anti-corrosion:** The lock features anti-corrosion properties, but avoid exposing it to harsh chemicals or prolonged direct moisture.

8. TROUBLESHOOTING

If you encounter issues with your YAVIS magnetic lock, consider the following common troubleshooting steps:

- **Lock Not Engaging (Door Not Securing):**

- Check if the DC 12V power supply is active and correctly connected to the lock.
- Verify that the red wire is connected to NC and the black wire to COM.
- Ensure the lock body and armature plate are clean and free of obstructions, allowing full contact.
- Check for proper alignment between the lock body and armature plate.

- **Lock Not Disengaging (Door Not Opening):**

- Confirm that the access control system is correctly sending the unlock signal (i.e., momentarily cutting power to the lock).
- Check the wiring for any loose connections or damage that might prevent power interruption.
- If using an exit button, ensure it is functioning correctly and wired to interrupt power to the lock.

- **Weak Holding Force:**

- Ensure the lock body and armature plate surfaces are clean and free of debris.
- Check for proper alignment; even slight misalignment can reduce holding force.
- Verify that the power supply is providing a stable DC 12V and sufficient current (0.11A - 0.15A).

If these steps do not resolve the issue, please contact customer support or a qualified technician.

9. WARRANTY & SUPPORT

Specific warranty information for the YAVIS 60kg (135lbs) DC 12V Magnetic Electric Lock is not provided in this manual. Please refer to your purchase documentation or contact your retailer for details regarding warranty coverage.

For technical support, product inquiries, or assistance with installation and troubleshooting beyond the scope of this manual, please contact YAVIS customer service or visit the official YAVIS website. Contact information may be available on the product packaging or your purchase invoice.