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> [60KG \(132lbs\) 12V Access Control Electric Magnetic Door Lock User Manual](#)

OBO HANDS 60KG

60KG (132lbs) 12V Access Control Electric Magnetic Door Lock User Manual

Brand: OBO HANDS | Model: 60KG

PRODUCT OVERVIEW

The OBO HANDS 60KG (132lbs) Electric Magnetic Door Lock is designed for access control systems, providing secure locking for various door types. Its compact design and low power consumption make it suitable for cabinets, drawers, and small doors. This lock operates on a DC12V power supply and features a fail-safe mode, meaning it unlocks when power is off.

Key features include:

- Suitable for Wooden Door, Glass Door, Metal Door, Fire Proof Door, etc.
- Holding Force: 60kg (132lbs)
- Mode: NC (Normally Closed - Unlocks when power off), fail-safe mode
- Voltage: DC12V, Current Draw: 0.11A ~0.15A
- Safety function: Built-in voltage spike suppressor
- Opening Mode: 90 degree swinging door.

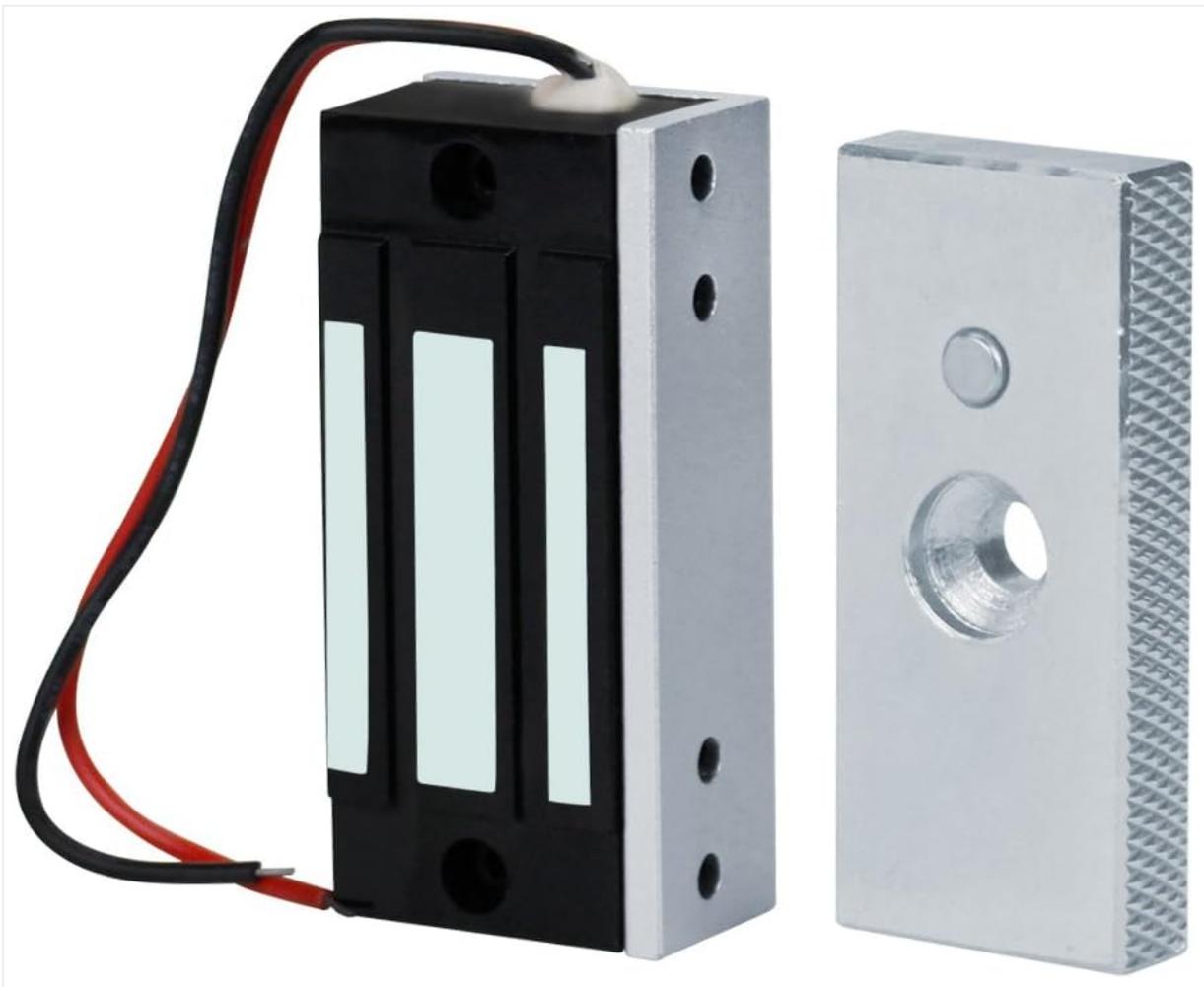


Figure 1: The OBO HANDS 60KG Electric Magnetic Door Lock (left) and its corresponding armature plate (right). This image displays the primary components of the magnetic lock system.

PRODUCT DIMENSIONS

Understanding the dimensions of the magnetic lock and armature plate is crucial for proper installation and fit. The main lock body measures approximately 80mm in length, 40mm in width, and 24mm in height. The armature plate is approximately 74mm in length, 35mm in width, and 10mm in thickness.

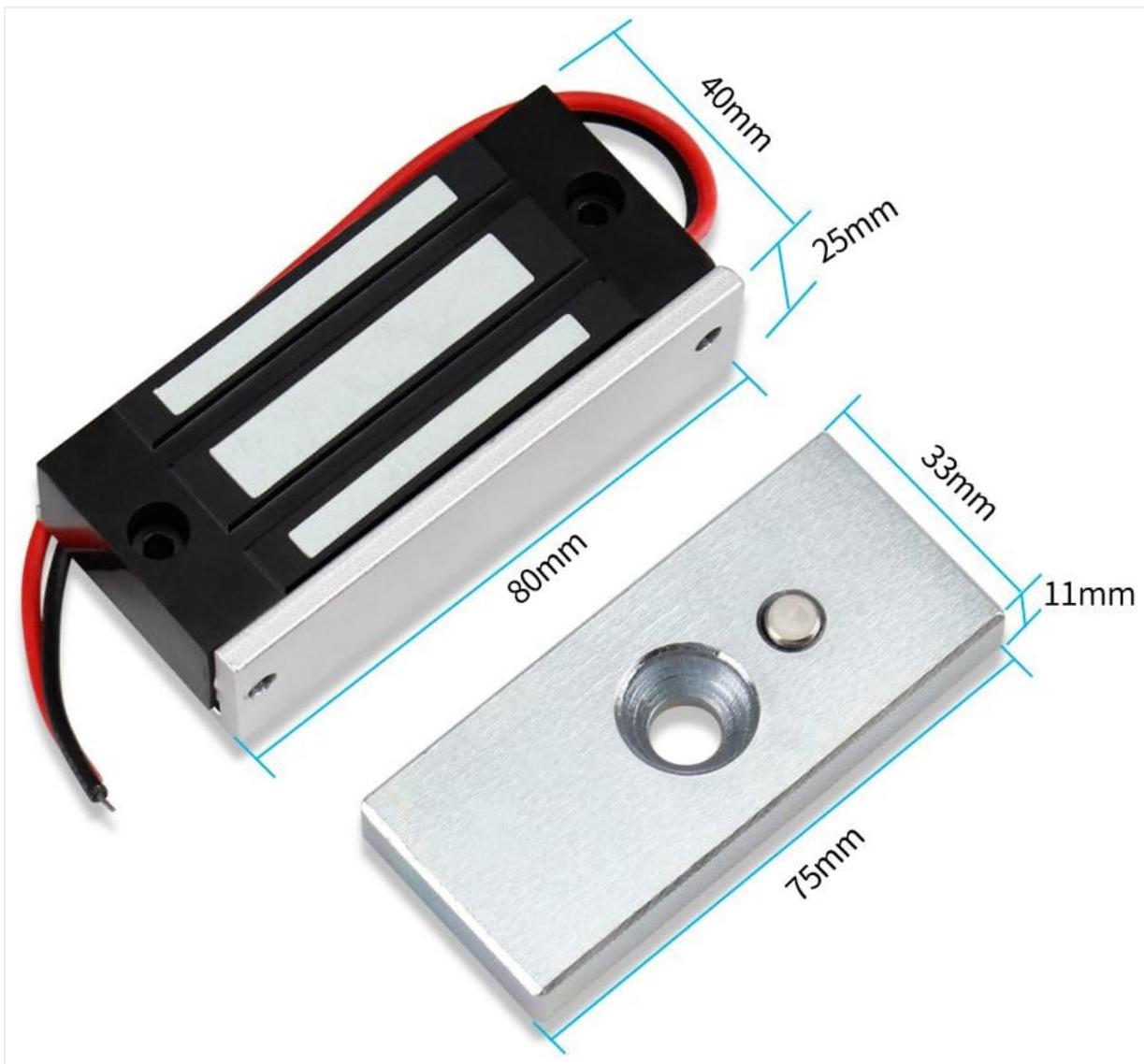


Figure 2: Detailed dimensions of the 60KG magnetic lock and its armature plate, showing measurements in millimeters for accurate planning and installation.

PACKAGE CONTENTS

Upon opening the package, verify that all the following components are included:

- 1 x Electric Magnetic Lock (60KG)
- 1 x Armature Plate
- 1 x Hex Key
- 1 x Screw Kit (various screws for mounting)
- 1 x User Manual (Note: May not be in English, refer to this digital manual for English instructions)





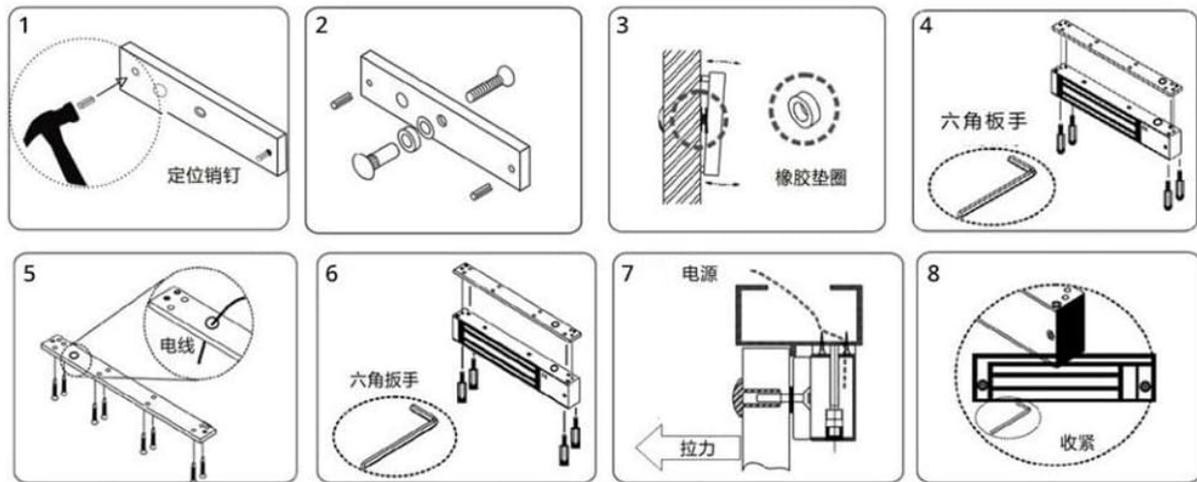
Figure 3: The complete set of components included with the magnetic lock, showing the lock body, armature plate, hex key, and various screws for installation. An optional L-bracket may also be included or purchased separately for specific mounting needs.

INSTALLATION GUIDE

Proper installation is critical for the reliable operation of your magnetic door lock. Please follow these steps carefully. It is recommended to have basic electrical knowledge or consult a professional for wiring.

Step-by-Step Installation Notes

Installation Notes



1. Put the dowel pin into the suction plate.
2. Put the bonded washer.
3. The bonded washer make suction stronger.
4. Remove the hanging plate.
5. Fixed hanging plate.
6. using the spanner and inner hexagon screws to fix the plate on the lock body.
7. Close the door to test the pulling force, can add or delete the bonded washer to adjust the adsorption surface of plate between with the lock body.
8. Tighten the tamper screws.

Figure 4: Visual guide for the installation process of the magnetic lock, illustrating each step from preparing the armature plate to securing the lock body.

1. **Put the dowel pin into the suction plate (armature plate).** This pin helps align the plate during installation.
2. **Put the bonded washer.** Place the washer onto the dowel pin.
3. **The bonded washer makes suction stronger.** This washer is designed to enhance the magnetic holding force.
4. **Remove the hanging plate.** Detach the mounting plate from the main lock body.
5. **Fixed hanging plate.** Securely attach the mounting plate to the door frame or desired surface using appropriate screws.
6. **Using the spanner and inner hexagon screws to fix the plate on the lock body.** Reattach the main lock body to the fixed mounting plate using the provided hex screws and hex key.
7. **Close the door to test the pulling force, can add or delete the bonded washer to adjust the adsorption surface of plate between with the lock body.** Test the magnetic hold. If the force is not optimal, adjust the number of bonded washers to fine-tune the gap between the lock and the armature plate.
8. **Tighten the tamper screws.** Secure any remaining screws to prevent tampering and ensure a firm installation.

Wiring Diagram

The magnetic lock requires a 12V DC power supply and integrates with an access control system. The following diagram illustrates a typical wiring setup:

Wiring Diagram:

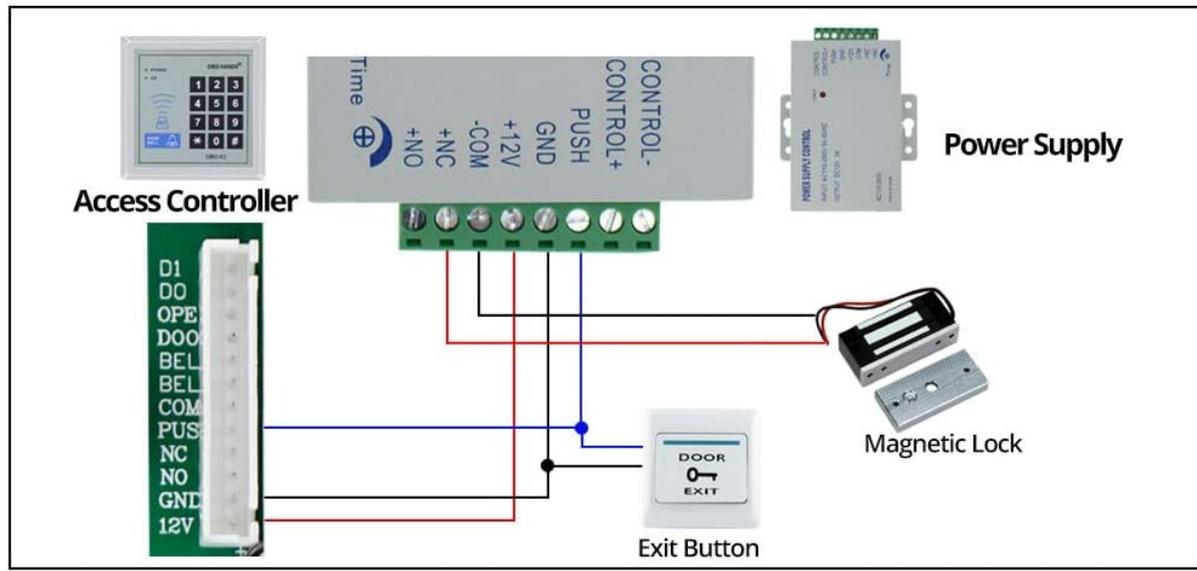


Figure 5: A comprehensive wiring diagram showing the connection of the magnetic lock to a 12V DC power supply, an access controller (keypad), and an exit button. Ensure correct polarity and secure connections for proper operation.

Wiring Key:

- The magnetic lock connects to the **Power Supply** (DC12V).
- The **Access Controller** (e.g., keypad) manages the power to the lock.
- An **Exit Button** is typically wired to the access controller to momentarily cut power to the lock, allowing egress.
- Ensure all connections are secure and follow local electrical codes.

OPERATION

The OBO HANDS 60KG magnetic lock operates in a Normally Closed (NC) configuration, which is a fail-safe mode. This means the lock is engaged (closed) when power is applied and disengages (opens) when power is removed. This is a critical safety feature, ensuring that the door unlocks automatically during a power outage, allowing for safe exit.

To operate the lock within an access control system:

- **Locking:** When the access control system is armed or in a locked state, continuous 12V DC power is supplied to the magnetic lock, keeping the door securely held by the magnetic force.
- **Unlocking (Entry):** A valid credential (e.g., PIN on a keypad, RFID card) is presented to the access controller. The controller momentarily cuts power to the magnetic lock, releasing the door.
- **Unlocking (Exit):** An exit button (push-to-exit button) is typically installed on the secure side of the door. Pressing this button also momentarily cuts power to the magnetic lock, allowing the door to be opened from the inside.

MAINTENANCE

To ensure the longevity and optimal performance of your magnetic door lock, periodic maintenance is recommended:

- **Cleaning:** Regularly wipe down the surfaces of the magnetic lock and armature plate with a clean, dry cloth to remove dust and debris. Avoid using abrasive cleaners or solvents.
- **Inspection:** Periodically check all mounting screws and wiring connections to ensure they are secure. Loose connections can lead to intermittent operation or reduced holding force.
- **Armature Plate Alignment:** Ensure the armature plate is clean and properly aligned with the magnetic lock body when the door is closed. Any misalignment can reduce the effective holding force.
- **Environmental Conditions:** While designed for durability, avoid exposing the lock to extreme moisture or corrosive environments beyond its specified operating conditions.

TROUBLESHOOTING

If you encounter issues with your OBO HANDS magnetic door lock, refer to the following common problems and their potential solutions:

| Problem | Possible Cause | Solution |
|---------------------------------------|--|---|
| Weak Holding Force | <ul style="list-style-type: none">◦ Improper alignment between lock and armature plate.◦ Insufficient power supply (voltage or current).◦ Debris or gap between lock and armature plate.◦ Incorrect number of bonded washers. | <ul style="list-style-type: none">◦ Ensure perfect alignment.◦ Verify power supply meets DC12V and 0.11A-0.15A requirements.◦ Clean surfaces and remove any obstructions.◦ Adjust bonded washers as per installation notes (Step 7). |
| Lock Does Not Engage (No Hold) | <ul style="list-style-type: none">◦ No power to the lock.◦ Incorrect wiring (polarity reversed).◦ Faulty lock unit. | <ul style="list-style-type: none">◦ Check power supply and connections.◦ Verify wiring according to the diagram (Figure 5).◦ Test lock with a known good 12V DC source. |
| Lock Overheats | <ul style="list-style-type: none">◦ Continuous power supply without proper control.◦ Internal short circuit or faulty unit. | <ul style="list-style-type: none">◦ Ensure the access control system is functioning correctly to manage power.◦ Disconnect power immediately and contact support if overheating persists. |

TECHNICAL SPECIFICATIONS

Detailed specifications for the OBO HANDS 60KG Electric Magnetic Door Lock:

| | |
|---------------------|-----------|
| Brand | OBO HANDS |
| Model Number | 60KG |

| | |
|------------------------------------|-------------------------------------|
| Holding Force | 60KG (132lbs) |
| Voltage | DC12V |
| Current Draw | 0.11A ~ 0.15A |
| Lock Type | Magnetic Lock (Fail-Safe / NC Mode) |
| Material | Iron |
| Color | Silver / Black |
| Dimensions (Lock Body) | 80mm x 40mm x 24mm |
| Dimensions (Armature Plate) | 74mm x 35mm x 10mm |
| Operating Temperature | -10°C to +55°C (14°F to 131°F) |
| Relative Humidity | 0% - 95% |
| UPC | 748440959167 |
| ASIN | B071V68KSY |

SUPPORT

For any questions, concerns, or technical assistance regarding your OBO HANDS magnetic door lock, please contact our support team:

- **WhatsApp Support:** +86 177 2255 8183
- **Availability:** Monday - Sunday, 24/7

Our team is dedicated to providing high-quality support and ensuring your satisfaction with OBO HANDS products.