KENRONE KR-S70

KENRONE KR-S70 Electromechanical Lock User Manual

Model: KR-S70 | Brand: KENRONE

1. Introduction

The KENRONE KR-S70 electromechanical lock is designed for secure and reliable locking applications. It features a gear motor mechanism, which provides lower power consumption and higher load capacity compared to traditional solenoid-operated electromechanical latches. Constructed from durable 304 stainless steel, this lock boasts an IP65 rating for water and dust resistance, ensuring protection against rust and corrosion. It is designed for integration with external control systems and does not operate on internal batteries.

2. Product Features

- **Robust Construction:** Composed of a motor, switch, balance wheel, emergency lever, and AWG24 wire. The design is rectangular, with a square aesthetic option.
- **Durable and Weatherproof:** Made from 304 stainless steel with an IP65 waterproof and dustproof rating, offering excellent resistance to rust and corrosion for high durability and security.
- **Integrated Control:** Operates without an internal battery. It connects to a control board via a connection wire, enabling key lock functionality. The control board is managed by a terminal computer or software.
- **High Security and Reliability:** Features a high-strength steel structure capable of withstanding significant mechanical loads. The integrated latch cover minimizes space requirements and maintains a clean, concealed appearance. An Omron internal micro switch provides open/close latch signal output, rated for 500,000 operations.
- **Emergency Override:** Includes a convenient mechanical override for manual release during power outages.
- **Customization:** Supports custom wires and connectors. Comes with AWG24 wires protected by a PVC tube.
- **Versatile Applications:** Suitable for various uses including waterproof beach cabinets, express mail cabinets, storage cabinets, supermarket lockers, vending machines, school lockers, cell phone lockers, and shared services like umbrellas, batteries, scooters, and electric motorcycles.

3. Setup

3.1. Unpacking and Component Check

Carefully unpack the product and verify that all components are present:

- 1 x KENRONE KR-S70 Electromechanical Lock
- 1 x Hook
- Mounting Screws

3.2. Installation Overview

The KR-S70 lock is designed for surface mounting. Ensure the mounting surface is stable and provides adequate clearance for the lock body and hook mechanism. Refer to the dimensions provided in the specifications section for precise measurements.

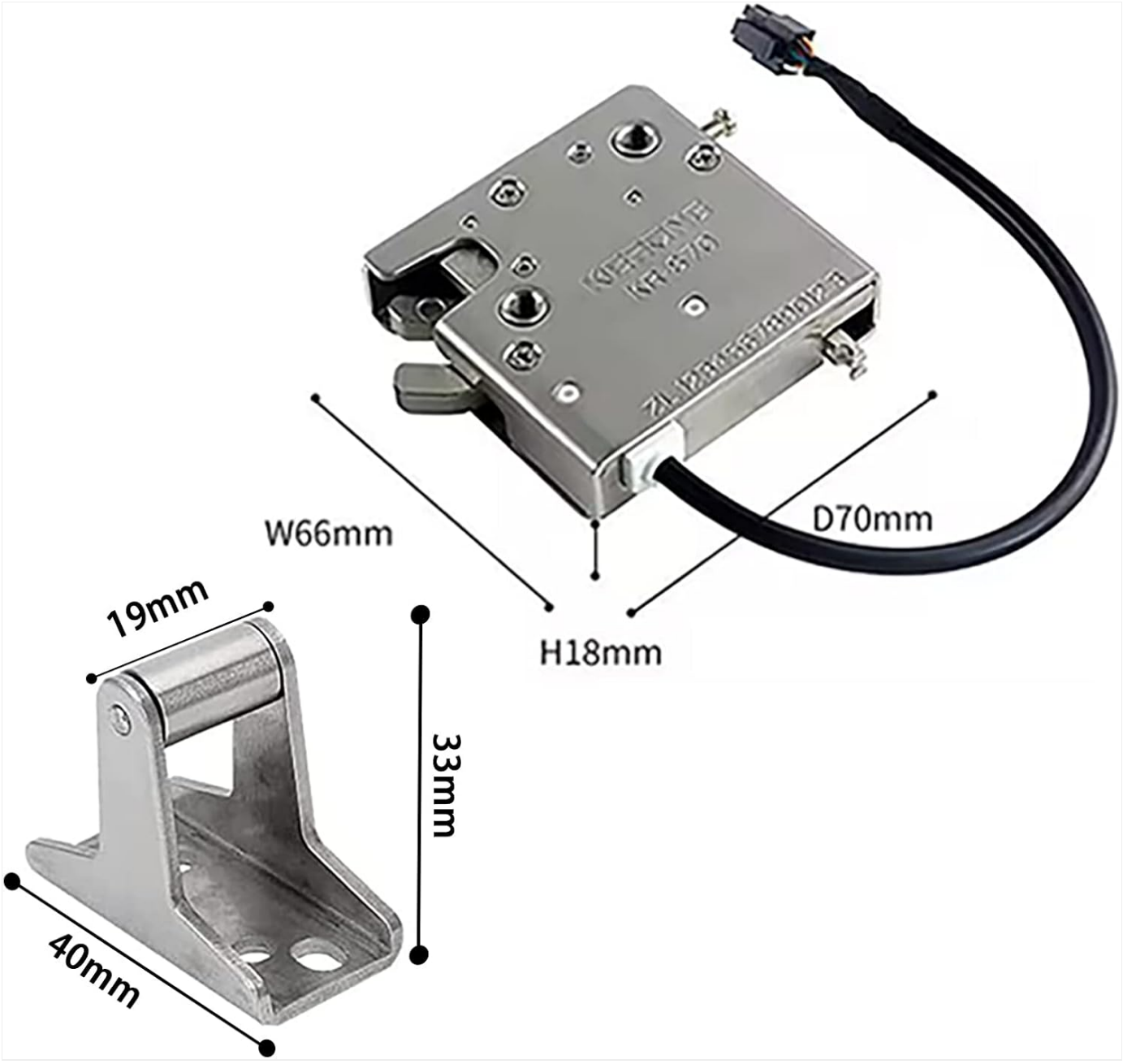


Image: Dimensional diagram of the KR-S70 lock and its hook, indicating measurements for width, depth, and height.

3.3. Electrical Connection

The lock requires a 12V DC power supply and connects to an external control board. It does not contain an internal battery. Connect the AWG24 wires from the lock to the appropriate terminals on your control board. Ensure correct polarity to prevent damage. Professional installation is recommended for integrating the lock with complex control systems or software.
The lock is designed to be controlled via a terminal computer or software interface connected to the control board. Consult your control board's documentation for specific wiring and programming instructions.

4. Operating Instructions

4.1. Normal Operation

Once properly installed and connected to a control board, the KR-S70 lock operates by receiving electrical signals. The control board, managed by a terminal computer or software, sends commands to lock or unlock the mechanism. The internal Omron micro switch provides feedback on the lock's open/close status to the control system.

4.2. Manual Override (Emergency Release)

In the event of a power failure or system malfunction, the lock features a mechanical override. This allows for manual release of the lock. Locate the emergency lever (if accessible in your installation) and operate it as per your specific cabinet design to open the lock. This feature ensures access even without electrical power.

5. Maintenance

The KENRONE KR-S70 lock is designed for minimal maintenance due to its robust stainless steel construction and IP65 rating.

- **Cleaning:** Periodically wipe the exterior of the lock with a soft, damp cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the lock mechanism and wiring for any signs of wear, damage, or loose connections. Ensure the hook engages and disengages smoothly.
- **Environmental Protection:** While IP65 rated, prolonged exposure to extreme conditions or direct high-pressure water jets should be avoided to maximize lifespan.



Image: The KR-S70 lock with water droplets, highlighting its IP65 waterproof feature.

6. Troubleshooting

If you encounter issues with your KENRONE KR-S70 lock, consider the following:

- **Lock Not Engaging/Disengaging:**
  - Check the 12V DC power supply to ensure it is active and stable.
  - Verify all electrical connections between the lock and the control board are secure and correctly wired.
  - Inspect for any physical obstructions preventing the latch or hook from moving freely.
  - Confirm that the control board is sending the correct signals and that its software is functioning properly.
- **Intermittent Operation:**
  - Check for loose wiring or intermittent power supply.
  - Ensure the control signal is consistent and strong.

- **No Status Feedback:**
  - If the control system is not receiving open/close status, check the wiring for the Omron micro switch.
  - Ensure the micro switch itself is not damaged or stuck.

For complex issues or integration support, please contact KENRONE customer service or a qualified technician.

7. Specifications

Manufacturer	Kerong Electronics
Part Number	KRS-S70-C1
Model Number	KR-S70
Brand	KENRONE
Lock Type	Electromechanical Lock
Material	Stainless Steel
Finish	Polished Surface
Shape	Square
Voltage	12V DC
Item Weight	358 g
Product Dimensions (L x W x H)	7 x 6.8 x 18 cm
Size	70*68*18mm
Style	B1
Number of Units/Pieces	1
Batteries Included/Required	No
Special Features	IP65 Waterproof, Customizable, Mechanical Override
Recommended Uses	Express cabinets, Vending machines, Supermarket storage, Shared lockers (umbrella, battery, scooter, electric motorcycles)



Image: Top view of the KR-S70 lock, illustrating its compact form factor.

8. Applications

The KENRONE KR-S70 electromechanical lock is highly versatile and can be integrated into various systems requiring secure and automated locking. Common applications include:

- Express Lockers and Mailboxes
- Storage Cabinets and Supermarket Lockers
- Vending Machines
- School and Gym Lockers
- Cell Phone Charging Lockers
- Shared Economy Devices (e.g., shared bicycles, scooters, umbrellas, battery stations)
- Electric Motorcycle Storage



Image: Examples of the KR-S70 lock in various applications, such as express lockers and shared mobility devices.



Image: Gym locker room, illustrating an environment where the KR-S70 lock can be used for secure storage.

9. Warranty and Support

For specific warranty information, please refer to the documentation provided at the time of purchase or contact your vendor. KENRONE products are manufactured to high standards, and the KR-S70 lock is designed for long-term reliability with an Omron micro switch rated for 500,000 operations.

If you have a project requiring the integration of KENRONE locks or need technical assistance, please contact Kerong Electronics directly. They can provide solutions and support tailored to your specific application needs.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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