KENRONE KR-S79

KENRONE KR-S79 Electromechanical Lock User Manual

Model: KR-S79

1. Introduction

The KENRONE KR-S79 is a robust, servo/motor-driven electromechanical lock designed for various applications requiring secure and reliable access control. Unlike solenoid-driven latches, its gear-motor mechanism offers lower power consumption and higher load capacity. Constructed from high-strength steel, zinc alloy, and 304 stainless steel, it is built for durability and resistance to environmental factors.

This lock is suitable for use in store lockers, incubators, shared bicycles, shared electric scooters, shared umbrellas, shared electric motorcycle batteries, gym cabinets, sauna cabinets, wardrobe cabinets, filing cabinets, vending machines, mobile phone charging boxes, shoe cabinets, and centralized control cabinets.

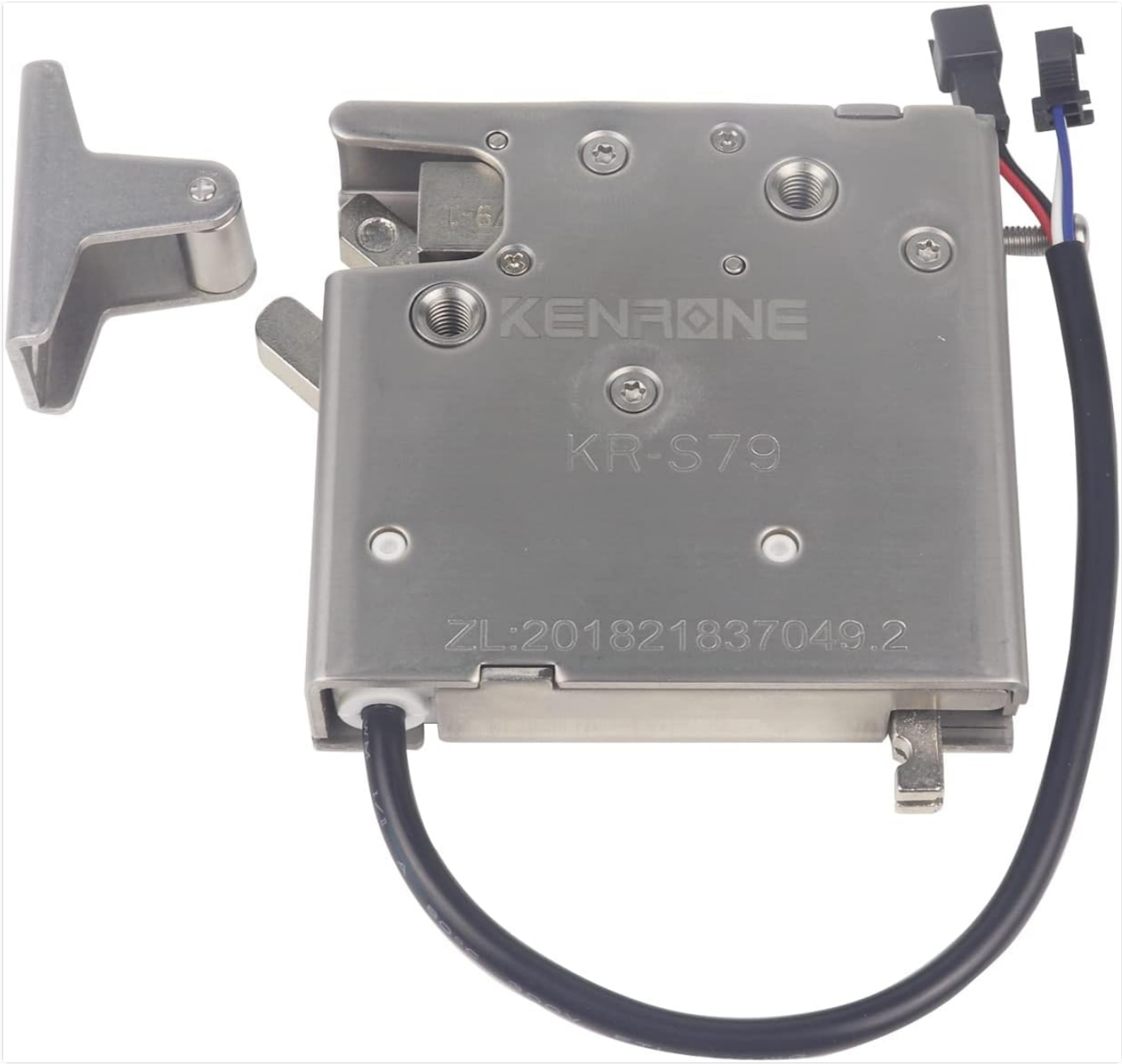


Figure 1: Front view of the KENRONE KR-S79 Electromechanical Lock with its hook.

2. Safety Information

- Ensure the power supply voltage (12V or 24V) matches the lock's specifications to prevent damage.
- Disconnect power before performing any installation, wiring, or maintenance procedures.
- Avoid exposing the lock to extreme temperatures or corrosive environments beyond its specified operating conditions.
- Do not attempt to disassemble or modify the lock beyond the instructions provided in this manual. Unauthorized modifications may void the warranty and pose safety risks.
- Handle all wiring with care to prevent short circuits or electrical hazards.

3. Package Contents

Verify that all components are present in the package:

- 1 x KR-S79 Electromechanical Lock

- 1 x Hook (e.g., Hook A1, B1, or C1, depending on the variant)
- Mounting Screws (quantity may vary)

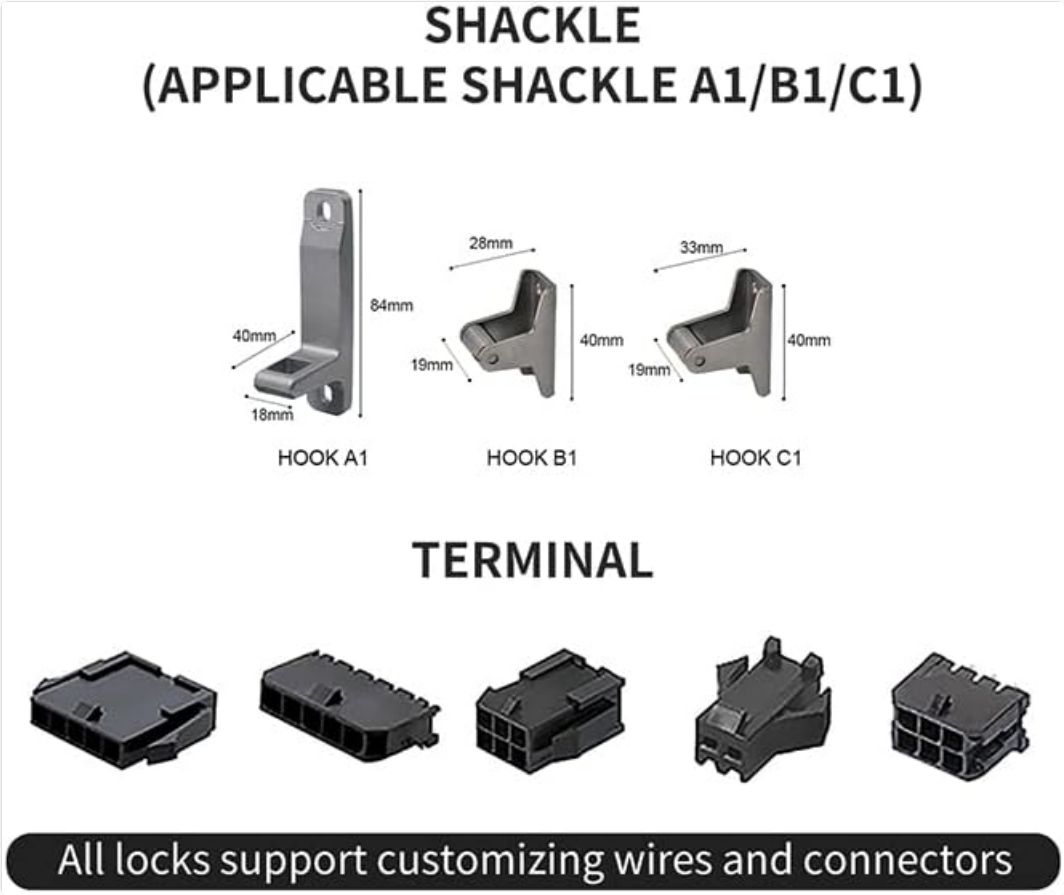


Figure 2: Various shackle (hook) and terminal types that can be used with the KR-S79 lock. The package includes one hook and necessary screws.

4. Specifications

Feature	Description
Model Number	KR-S79
Manufacturer	Kerong Electrics
Dimensions (L x W x H)	79 x 82 x 18.8 mm (approx. 7.9 x 8.2 x 1.9 cm)
Weight	449 g
Operating Voltage	12V / 24V (specify model variant)
Material	Polyvinyl Chloride, Stainless Steel, Zinc Alloy, Steel
Finish	Polished
Special Features	Auto-Lock, Manual Override, Internal Micro Switch
Working Life	500,000 cycles (internal micro switch)
Salt & Spray Test	Over 72 hours (Zinc Alloy components)

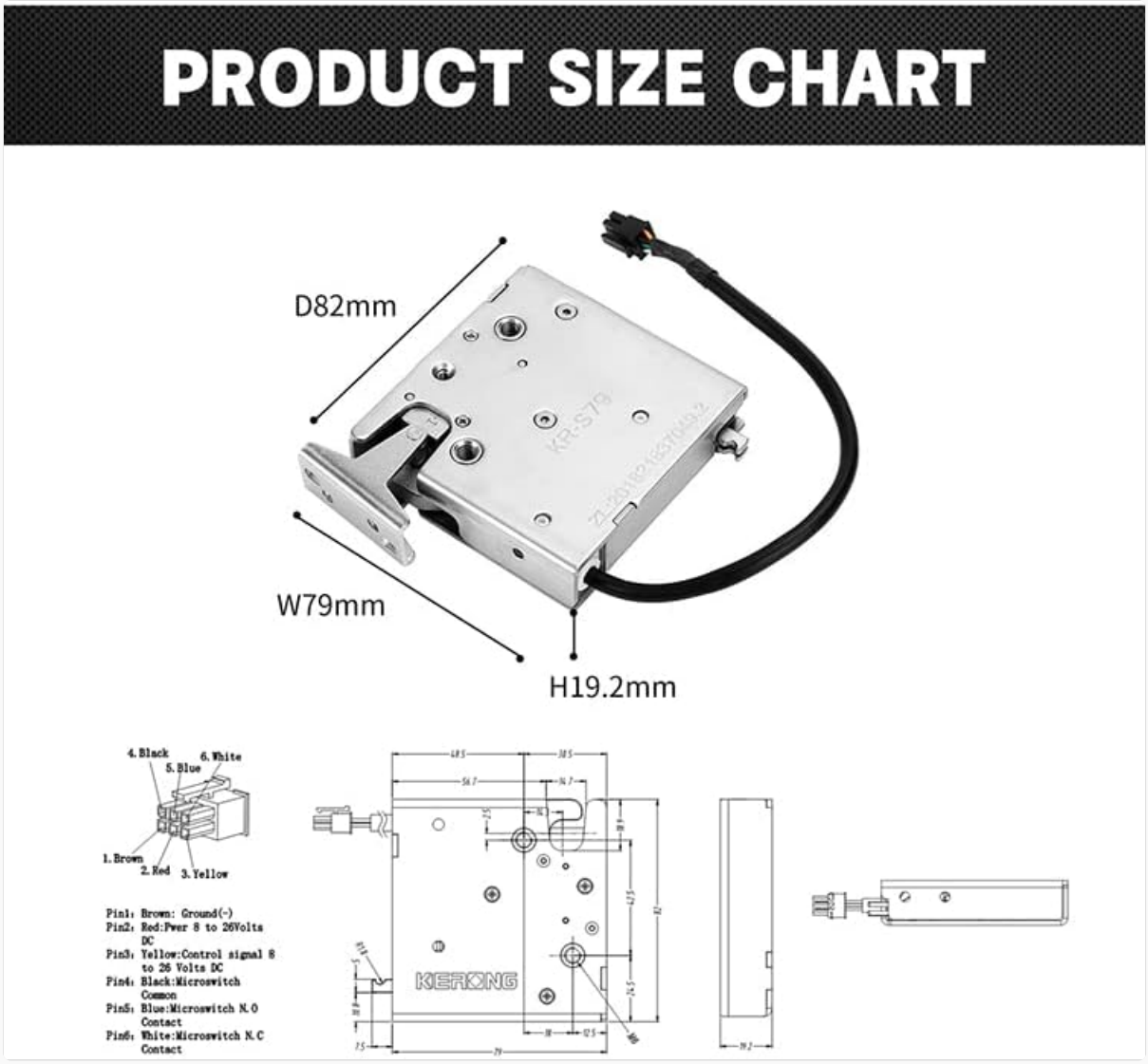


Figure 3: Detailed dimensions and basic wiring pin assignments for the KR-S79 lock.

5. Setup & Installation

5.1 Mounting the Lock

1. **Choose Location:** Select a suitable mounting location within your cabinet or locker that allows for proper alignment with the included hook.
2. **Mark Holes:** Use the lock body as a template to mark the screw hole positions on the mounting surface.
3. **Drill Pilot Holes:** Drill appropriate pilot holes for the mounting screws.
4. **Secure Lock:** Attach the KR-S79 lock securely using the provided screws. Ensure it is firmly fixed and does not wobble.
5. **Mount Hook:** Position the hook on the door or frame so that it aligns perfectly with the lock's latch mechanism when the door is closed. Mark and drill pilot holes, then secure the hook with screws.



Figure 4: Back view of the KR-S79 lock, illustrating potential mounting points.

5.2 Wiring Instructions

The KR-S79 lock uses AWG24 wires with PVC protecting tubes. The wiring harness typically includes a connector. Refer to Figure 3 for a basic wiring diagram. The lock supports customizing wires and connectors to meet specific requirements.

- **Pin 1 (Brown):** Ground (-)
- **Pin 2 (Red):** Power (8 to 20 Volts DC)
- **Pin 3 (Yellow):** Control Signal (8 to 15 Volts DC)
- **Pin 4 (Black):** Microswitch N.O. Contact (Normally Open)
- **Pin 5 (White):** Microswitch N.C. Contact (Normally Closed)

Caution: Ensure correct polarity and voltage when connecting power. Incorrect wiring can damage the device.

6. Operating Instructions

6.1 Basic Operation

1. **Locking:** When power is applied and the control signal is in the appropriate state (depending on the signal mode configured), the lock will engage, securing the door or cabinet.
2. **Unlocking:** To unlock, apply the correct control signal. The gear-motor will retract the latch, allowing the door to open.



Figure 5: Close-up view of the KR-S79 lock's internal mechanism, showing the latch in a closed position.

6.2 Internal Micro Switch

The KR-S79 features an internal micro switch that provides feedback on the latch's open/closed status. This signal can be integrated into a control system for monitoring purposes. The micro switch has a working life of 500,000 cycles.

6.3 Mechanical Override

In the event of a power failure or system malfunction, the lock is equipped with a convenient mechanical override lever. This allows for manual release of the lock, ensuring access even without electrical power.

6.4 Signal Modes

The lock supports five different signal modes to meet various customer requirements. Specific details on configuring these modes should be obtained from the manufacturer or product documentation if not provided with the unit.

7. Maintenance

- **Cleaning:** Periodically clean the exterior of the lock with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the finish or internal components.
- **Inspection:** Regularly inspect the lock and hook for any signs of wear, damage, or loose screws. Ensure the latch mechanism moves freely without obstruction.
- **Lubrication:** The gear-motor mechanism is designed for long-term operation. Avoid applying lubricants unless specifically recommended by the manufacturer, as this could attract dust and hinder performance.
- **Environmental Protection:** While the lock is waterproof and resistant to salt spray, prolonged exposure to harsh conditions should be minimized to extend its lifespan.

8. Troubleshooting

Problem	Possible Cause	Solution
Lock does not engage/disengage electrically.	No power, incorrect voltage, faulty wiring, incorrect control signal.	Check power supply, verify voltage, inspect wiring connections, ensure control signal is correct.
Latching mechanism is stiff or obstructed.	Misalignment of lock and hook, debris in mechanism, physical damage.	Check alignment, clean any debris, inspect for damage. Adjust mounting if necessary.
Micro switch feedback is incorrect.	Faulty micro switch, incorrect wiring of feedback pins.	Verify micro switch wiring (Pins 4 & 5). If issue persists, contact support.
Mechanical override does not work.	Mechanism jammed, physical damage to override lever.	Inspect the override lever and internal mechanism for obstructions or damage. Do not force.

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your KENRONE KR-S79 electromechanical lock, please contact your point of purchase or refer to the official KENRONE website for customer service contact details.

Please have your product model number (KR-S79) and purchase date available when contacting support.

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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.

Submit question

Answered questions about this manual

How can I fix my KENRONE KR-S79 electromechanical lock if the internal micro switch is locked in the open position?

If the internal micro switch on your KENRONE KR-S79 is locked in the open position, it may be due to a mechanical obstruction, misalignment, or an electrical fault. Please follow these troubleshooting steps:Check for...

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