

BEA 10GL1200R

BEA 10GL1200R Aluminum Key Lock Maglock User Manual

Model: 10GL1200R

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the BEA 10GL1200R Aluminum Key Lock Maglock. This device is a multipurpose, surface-mount electromagnetic lock designed for various security and access control applications. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Disconnect power before installation or servicing.

- Installation should only be performed by qualified personnel in accordance with all local and national electrical codes.
- Ensure all wiring connections are secure and insulated to prevent short circuits.
- Do not operate the maglock if it appears damaged.
- This device operates on 12VDC or 24VDC. Verify the power supply voltage matches the maglock's requirements.

3. PACKAGE CONTENTS

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

- BEA 10GL1200R Maglock Unit
- Armature Plate
- Mounting Hardware (screws, anchors, etc.)
- Installation Instructions (this manual)



Image 3.1: The BEA 10GL1200R Maglock unit with its armature plate and associated mounting hardware.

4. PRODUCT OVERVIEW

The BEA 10GL1200R is a robust electromagnetic lock designed for high-security applications. It features a 1200 lb. holding force and a durable satin aluminum finish. The unit is weatherproof, rated to UL NEMA 4 standards, making it suitable for both indoor and outdoor use. It operates on either 12VDC or 24VDC power, offering flexibility for various installations.



Image 4.1: Front view of the BEA 10GL1200R Aluminum Key Lock Maglock, showcasing its satin aluminum finish.

5. SETUP AND INSTALLATION

This section outlines the general steps for installing the BEA 10GL1200R Maglock. Specific mounting details may vary based on the door and frame type. Always refer to local building codes.

5.1 Mounting the Maglock Unit

1. **Prepare the Mounting Surface:** Identify the desired location on the door frame for the maglock. Ensure the surface is clean, flat, and strong enough to support the unit's weight and holding force.
2. **Mark Drilling Points:** Use the provided mounting template (if applicable) or the maglock unit itself to mark the drilling points for the mounting screws.
3. **Drill Holes:** Drill pilot holes for the mounting screws. For hollow frames, use appropriate anchors.
4. **Secure the Maglock:** Attach the maglock unit to the door frame using the provided mounting hardware. Ensure it is firmly secured and level.

5.2 Installing the Armature Plate

1. **Position the Armature:** Align the armature plate with the maglock unit on the door. The armature should be positioned so it makes full contact with the maglock's face when the door is closed.
2. **Mark Drilling Points:** Mark the drilling points for the armature plate on the door.
3. **Drill Holes:** Drill pilot holes and secure the armature plate to the door using the provided hardware. Ensure the armature plate can pivot slightly to allow for proper alignment with the maglock face.

5.3 Wiring the Maglock

The BEA 10GL1200R operates on either 12VDC or 24VDC. Connect the power supply wires to the maglock's terminals according to the wiring diagram provided with the unit or as follows:

- Connect the positive (+) lead from the power supply to the maglock's positive terminal.
- Connect the negative (-) lead from the power supply to the maglock's negative terminal.
- Ensure all connections are tight and insulated.
- For 12VDC operation, the current draw is approximately 0.50A.
- For 24VDC operation, the current draw is approximately 0.25A.

Note: Always verify the power supply output matches the selected voltage for the maglock to prevent damage.

6. OPERATING INSTRUCTIONS

The BEA 10GL1200R Maglock is an energize-to-lock device. This means it secures the door when power is applied and releases the door when power is removed.

- **Locking:** When power is supplied to the maglock, the electromagnet becomes energized, creating a strong magnetic bond with the armature plate, thereby securing the door.
- **Unlocking:** When power to the maglock is interrupted (e.g., by an access control system, push button, or key switch), the electromagnet de-energizes, releasing the armature plate and allowing the door to open.
- **Key Lock Functionality:** If equipped with a key lock override, inserting and turning the key will mechanically disengage the locking mechanism, allowing the door to be opened even if power is applied to the maglock.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your BEA 10GL1200R Maglock.

- **Cleaning:** Periodically clean the face of the maglock and the armature plate with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the finish or magnetic surface.
- **Inspection:** Annually inspect all mounting hardware for tightness. Check wiring connections for any signs of wear, corrosion, or damage.

- **Alignment:** Ensure the armature plate remains properly aligned with the maglock face. Misalignment can reduce holding force and cause premature wear.
- **Weatherproofing:** Although the unit is weatherproof (UL NEMA 4), ensure that any external wiring entries are properly sealed to maintain its integrity against environmental elements.

8. TROUBLESHOOTING

If you encounter issues with your maglock, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Maglock does not engage (door does not lock)	No power to the maglock; Incorrect wiring; Faulty power supply; Maglock failure.	Check power supply and connections. Verify voltage. Ensure wiring is correct. Test power supply output. If all checks fail, contact support.
Maglock does not release (door remains locked)	Power constantly supplied; Control system malfunction; Key lock engaged.	Check control system for proper signal. Ensure power is being cut when intended. If applicable, check key lock position.
Reduced holding force	Misalignment of armature plate; Gap between maglock and armature; Dirty surfaces; Insufficient power.	Adjust armature plate for full contact. Ensure no debris on contact surfaces. Verify power supply voltage and current.
Maglock makes excessive noise	Loose mounting hardware; Armature plate vibration.	Tighten all mounting screws. Ensure armature plate is securely fastened but can float slightly for alignment.

9. SPECIFICATIONS

Feature	Specification
Model Number	10GL1200R
Holding Force	1200 lbs (544 kg)
Input Voltage	12/24VDC (auto-sensing)
Current Draw @ 12VDC	0.50A
Current Draw @ 24VDC	0.25A
Finish	Satin Aluminum
Features	Weatherproof, Key Lock
Standards	UL NEMA 4
Product Dimensions	11.3 x 3.7 x 3.5 inches (28.7 x 9.4 x 8.9 cm)
Item Weight	10 pounds (4.5 kg)
Manufacturer	BEA

10. WARRANTY INFORMATION

BEA products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the official warranty statement provided with your purchase or visit the BEA official website. Keep your proof of purchase for warranty claims.

11. SUPPORT

For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, please contact BEA customer support. You can find contact information on the official BEA website or through your authorized distributor.

BEA Official Website: www.beainc.com