FAS RSL12U-TD

LiftMaster RSL12U Slide Gate Operator User Manual

Model: RSL12U-TD

1. INTRODUCTION AND OVERVIEW

The LiftMaster RSL12U is a residential and light commercial slide gate operator designed for reliable and secure gate automation. This manual provides essential information for the safe installation, operation, and maintenance of your gate operator system.

Key features include a 12VDC continuous-duty motor, a rust-resistant steel chassis, and a UV-resistant polyethylene cover. It is rated for gates up to 25 feet in length or weighing up to 800 pounds, with a duty rating of 120 cycles per day.

Figure 1.1: Front view of the LiftMaster RSL12U slide gate operator, showcasing its compact design and control panel.

2. SAFETY INFORMATION

This gate operator is designed with multiple safety features to protect users and property. Adherence to all safety guidelines is crucial for proper operation.

- **Gate Safety Sensors:** These sensors are designed to detect obstructions in the gate's path, preventing the gate from closing on people or objects.

- **Security+ 2.0:** This technology safeguards access to the property by utilizing an encrypted signal, offering enhanced security and extended range.

- **Safety Reversing:** If an obstruction is detected, the gate will reverse its direction. This feature works in conjunction with the inherent reversing sensor and included monitored safety accessories.

- **Quick Close Feature:** This function allows the gate to close rapidly after a vehicle passes, helping to prevent unauthorized access or "tailgating."

- **UL Listed:** The RSL12U has been tested and certified to meet the stringent UL 325 industry guidelines for gate operators. It is important to note that secondary entrapment devices (such as photo eyes or edge sensors) must be added to meet full UL325 standards for a complete installation.

- **Sync Feature:** This allows for synchronized gate operation, which can eliminate the need for costly trenching for wiring between two operators. Independent speed settings are also possible.

Figure 2.1: The LiftMaster RSL12U operator shown in a typical installation, emphasizing its role in gate safety and accessibility. The image also highlights the inclusion of a Monitored Retro-Reflective Photo Eye (LMRRU).

3. SETUP AND INSTALLATION

Installation of the LiftMaster RSL12U should be performed by a qualified professional to ensure compliance with all local codes and safety standards. This section provides a general overview of the installation process.

3.1 Pre-Installation Checklist

- Verify gate dimensions and weight are within the operator's capacity (max 25 ft / 800 lbs).
- Ensure adequate power supply (12VDC).
- Confirm all included components are present.
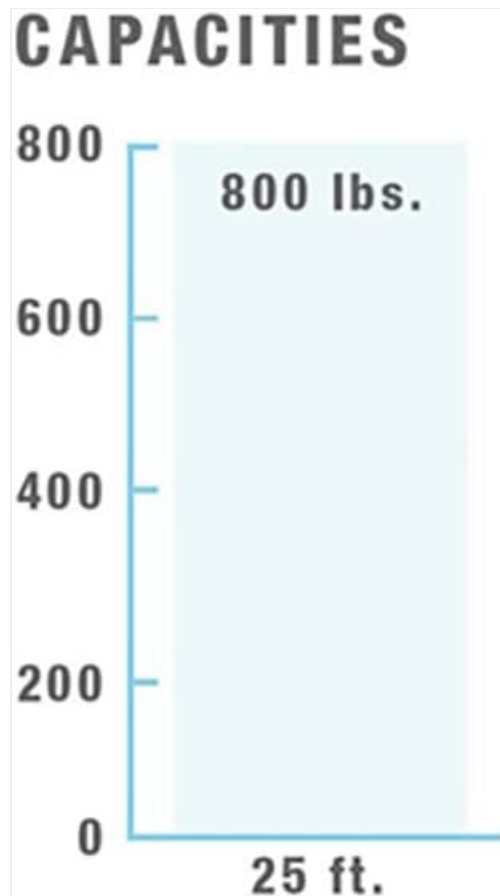- Review local building codes and electrical regulations.

Figure 3.1: Visual representation of the operator's maximum gate capacities: 800 pounds in weight and 25 feet in length.

3.2 Mounting the Operator

The operator is designed for wall mount installation. Secure the unit to a stable, level surface using appropriate hardware. Ensure the mounting location allows for proper gate travel and access for maintenance.

3.3 Electrical Connections

Connect the 12VDC power supply to the operator's control board. Wire all safety devices, such as photo eyes and edge sensors, according to the wiring diagram provided in the full installation manual. Proper grounding is essential.

3.4 Installing Included Components

The system includes an 828LM Internet Gateway, Photo Eyes, and Edge Sensors. Install these components as per their individual instructions to ensure full functionality and compliance with UL325 standards.

Figure 3.2: The primary components included with the RSL12U system: the gate operator, the 828LM Internet Gateway, and the photo eyes, which are crucial for safety and remote access.

4. OPERATING INSTRUCTIONS

The LiftMaster RSL12U offers various methods for operation, including key control and remote access via the Internet Gateway.
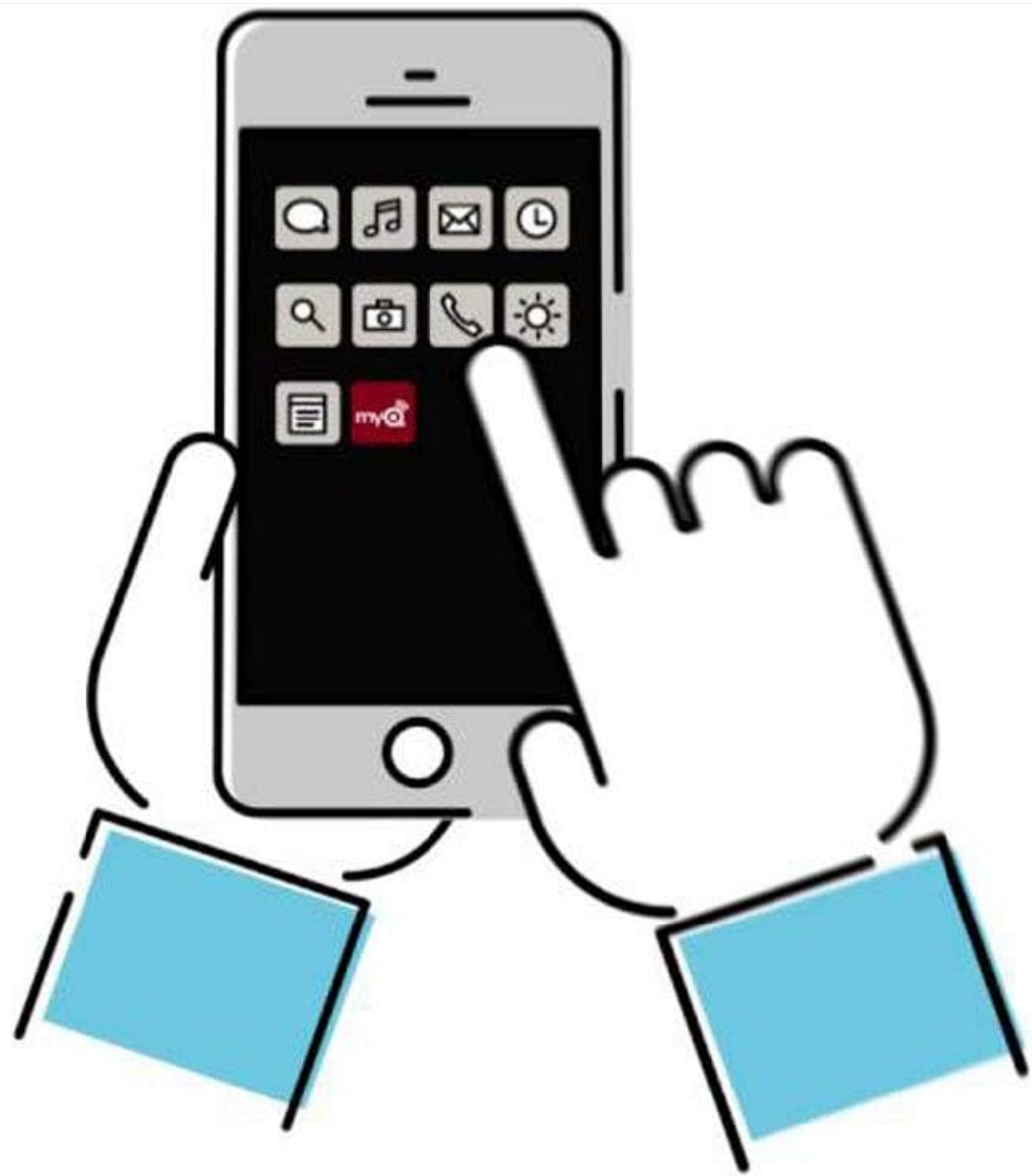
4.1 Manual Key Control

The operator features a key lock for manual control. Insert the key and turn to engage or disengage the gate operator for manual gate movement or to lock the system.

4.2 Remote Operation (MyQ App)

With the included 828LM Internet Gateway, you can control and monitor your gate remotely using the MyQ app on your smartphone or tablet. This requires an active MyQ account.

1. Download the MyQ app from iTunes (Apple App Store) or Google Play Store.
2. Create or log in to your MyQ account.
3. Follow the in-app instructions to connect your 828LM Internet Gateway and gate operator.
4. Once connected, you can open, close, and monitor the status of your gate from anywhere.

Requires active MyQ account.
Available for download on iTunes® and Google Play™.

Figure 4.1: The MyQ app interface on a smartphone, demonstrating the ability to control the gate operator remotely. The app is available on iTunes and Google Play.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your LiftMaster RSL12U gate operator. Perform these checks periodically:

- **Monthly:** Inspect the gate for proper balance and alignment. Check for any loose hardware or signs of wear on the gate or operator components.
- **Quarterly:** Clean the photo eye lenses to ensure clear visibility. Test the safety reversing mechanism by placing an object in the gate's path. The gate should reverse upon contact.
- **Annually:** Have a qualified technician inspect the entire system, including electrical connections, motor, and all safety devices, to ensure optimal performance and compliance with safety standards.
- **Cleaning:** The 1-piece UV-resistant polyethylene cover can be wiped clean with a damp cloth. Avoid abrasive cleaners.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your LiftMaster RSL12U gate operator. For more complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Gate does not open or close.	No power; safety sensors obstructed; remote battery dead.	Check power supply; clear obstructions from safety sensors; replace remote battery.
Gate reverses unexpectedly.	Obstruction in gate path; safety sensor misalignment.	Remove obstruction; realign or clean safety sensors.
Remote control not working.	Out of range; battery dead; programming issue.	Move closer to operator; replace battery; re-program remote.
MyQ app not connecting.	Internet Gateway offline; Wi-Fi issue; MyQ account problem.	Check Internet Gateway power and internet connection; verify home Wi-Fi; log out and back into MyQ app.

7. Specifications

Attribute	Detail
Brand	FAS (LiftMaster)
Model Number	RSL12U-TD
Motor	12VDC continuous-duty (P3 Motor)
Chassis Material	1/4" gold zinc-plated steel (rust prevention)
Cover Material	1-piece UV-resistant polyethylene
Operator Duty Rating	120 cycles per day
Recommended Gate Capacity	Up to 25 ft. in length or 800 lbs. in weight
Product Dimensions	45"D x 45"W x 58"H
Item Weight	140 Pounds
Lock Type	Key
Control Type	Key Control, Remote (MyQ App via Internet Gateway)
Material	Alloy Steel, Zinc
Mounting Type	Wall Mount
Water Resistance Level	Not Water Resistant

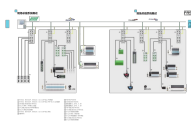| Attribute	Detail
Included Components	828LM Internet Gateway, Photo Eyes, Edge Sensors

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation included with your product or contact LiftMaster customer support directly. General support for the LiftMaster RSL12U includes:

- **Technical Assistance:** Contact LiftMaster customer service for technical support, troubleshooting, and parts inquiries.
- **Online Resources:** Visit the official LiftMaster website for additional manuals, FAQs, and video tutorials.
- **Professional Service:** For installation, complex repairs, or annual inspections, it is recommended to contact a certified LiftMaster dealer or gate automation professional.

Related Documents

[FAS Industrial Automation IO-Link Modules, Cables, and Connectors](#)
Comprehensive catalog of FAS IO-Link modules, industrial Ethernet cables, and connectors. Featuring Profinet, Ethernet/IP, EtherCAT, and CC-Link IE Basic compatibility with M12, M8, RJ45, and SUB-D connectors for robust industrial automation.