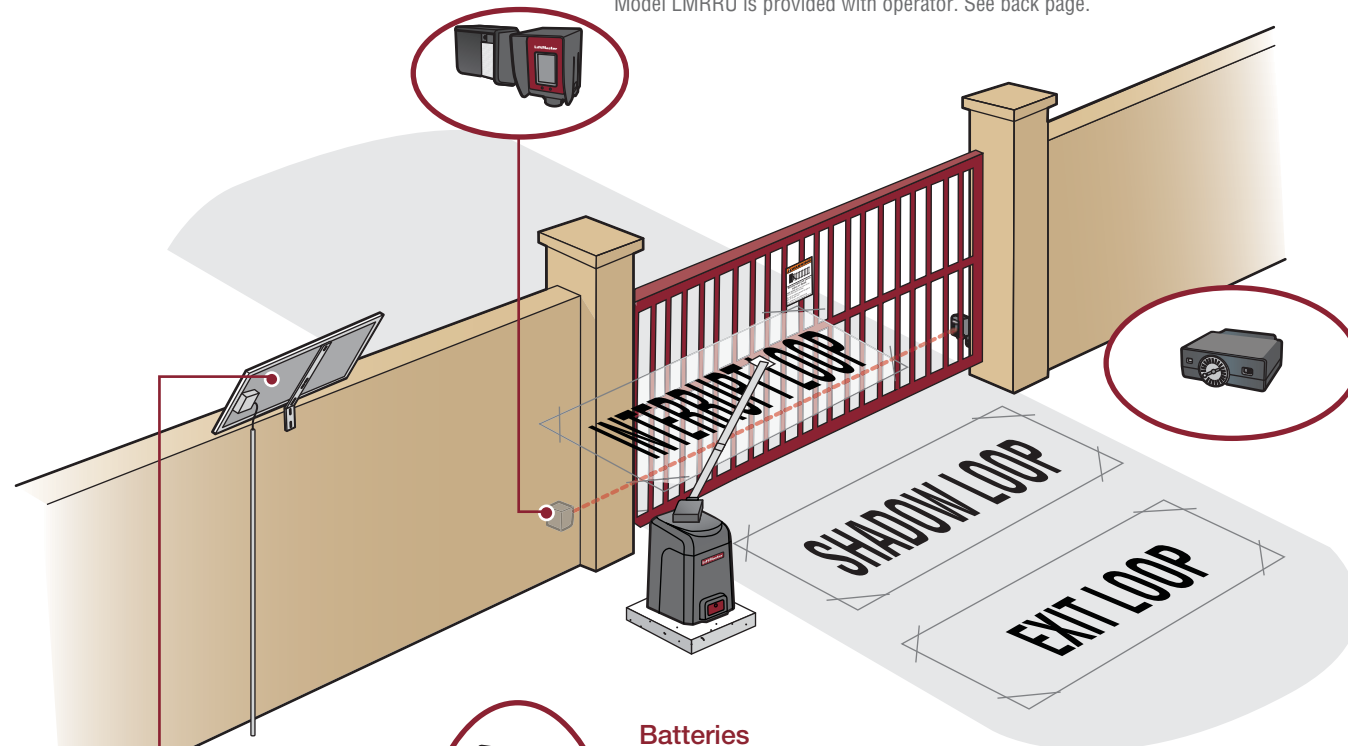


Gate Operator Site Plan

ACCESSORY OVERVIEW

Entrapment Protection Devices

This operator contains an inherent (internal) entrapment protection system and **REQUIRES** the addition of a LiftMaster external monitored entrapment protection system (non-contact photoelectric sensor or contact edge sensor) for EACH entrapment zone prior to gate movement. Model LMRRU is provided with operator. See back page.



Plug-In Loop Detector

Includes 8 sensitivity settings and boost, ensures vehicles are easily identified.

Batteries

7AH

Standard 7 AMP-Hour Battery, 12 Vdc, to replace original battery provided with operator. Reuse existing harnesses.

33AH

Upgrade 33 AMP-Hour Battery, 12 Vdc. Ideal for extended battery backup. Requires battery tray and solar battery harness.

Solar Panel

To replace or add a solar panel to the operator application. Requires a solar battery harness. 10W minimum to 30W maximum.

Heater Kit

Protects system to -40° F.

MODEL RSW12U

ORDER SUMMARY

Customer:	Date:
Project:	
Architect/Engineer:	
Contractor:	
Gate Length (ft.):	Gate Weight (lbs.):
Solar (Y/N):	
Power Source (120 or 240 VAC):	

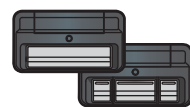
LiftMaster gate operators comply with UL 325 standards. **IMPORTANT:** To be compliant with UL 325 and industry safety guidelines, LiftMaster qualified monitored external entrapment protection devices such as photoelectric sensors or edge sensors are required to be installed with this operator.

ACCESSORY CHECKLIST

ACCESSORY

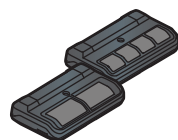
MODEL

- Entrapment Protection Devices See back page
 - Plug-In Loop Detector LOOPDETLM
 - Universal DIP Single Button Remote Control 811LM
 - Universal DIP Three Button Remote Control 813LM
 - Security+ 2.0® 2-Button Remote Control 892LT
 - Security+ 2.0® 4-Button Remote Control 894LT
 - Wireless Commercial Keypad KPW250
 - LiftMaster Internet Gateway 828LM
 - 7AH Battery 29-NP712
 - 33AH Batteries A12330SGLPK
 - Heater Kit HTR
- ### SOLAR
- 10 Watt 12V Solar Panel SP10W12V
 - 20 Watt 12V Solar Panel SP20W12V
 - Battery Tray for 33AH batteries K10-36183
 - Solar Battery Harness K94-37236



Universal DIP Single-Button and 3-Button Remote Control

These remote controls are ideal for applications such as gated communities or commercial applications requiring a large number of remotes for a common entrance.



2-Button and 4-Button Security+ 2.0 Learning Remote Controls

These remote controls are ideal for gated communities. One button can control a gate operator and the other(s) can control a garage door. It can also be programmed to different codes and frequencies.



Wireless Commercial Keypad

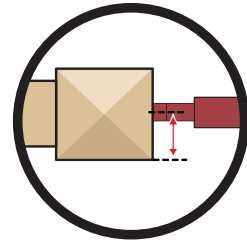
Security+ 2.0 compatible.



LiftMaster Internet Gateway

Internet enabled accessory which connects to the computer and allows you to monitor and control gate operators and lighting accessories enabled by MyQ technology.

GATE CONSTRUCTION & SITE PREPARATION

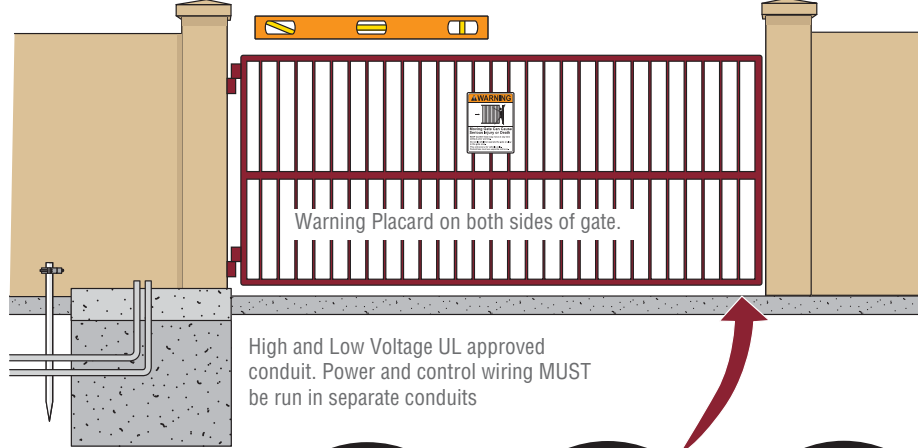


There should only be a maximum of 4" (10.2 cm) from the center of the hinge to the edge of the post or column. If the distance is greater than 4" (10.2 cm) entrapment protection for this area is required.

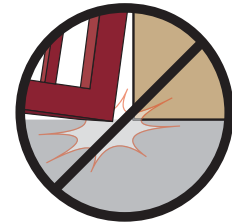
Maximum gate weight/length:
 400 lbs. (181.4 kg)/16 ft. (4.9 m)
 600 lbs. (272.2 kg)/12 ft. (3.7 m)
 700 lbs. (317.5 kg)/10 ft. (3 m)
 800 lbs. (362.9 kg)/8 ft. (2.4 m)
 1000 lbs. (543.5 kg)/6 ft. (1.8 m)

Gate **MUST** swing freely and be supported entirely by its hinges.

Gate **MUST** be level. Gate and gate post **MUST** be plumb.



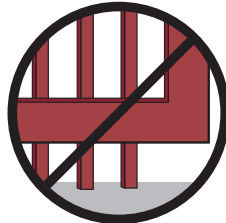
Earth Ground Rod
 Check national and local codes for proper depth



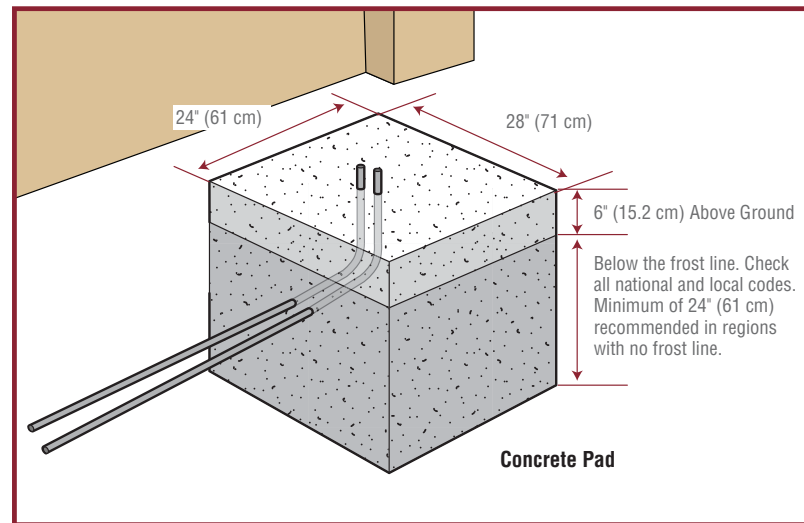
Gate **MUST NOT** hit or drag across ground.



Remove **ANY/ALL** wheels from the bottom of gate.

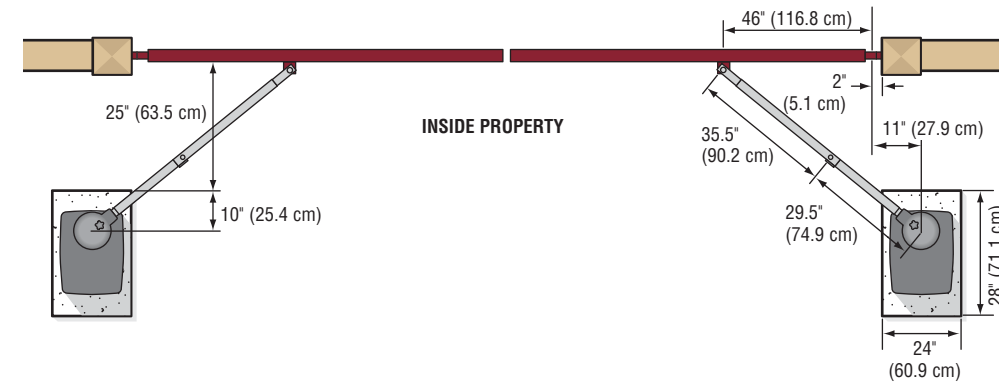
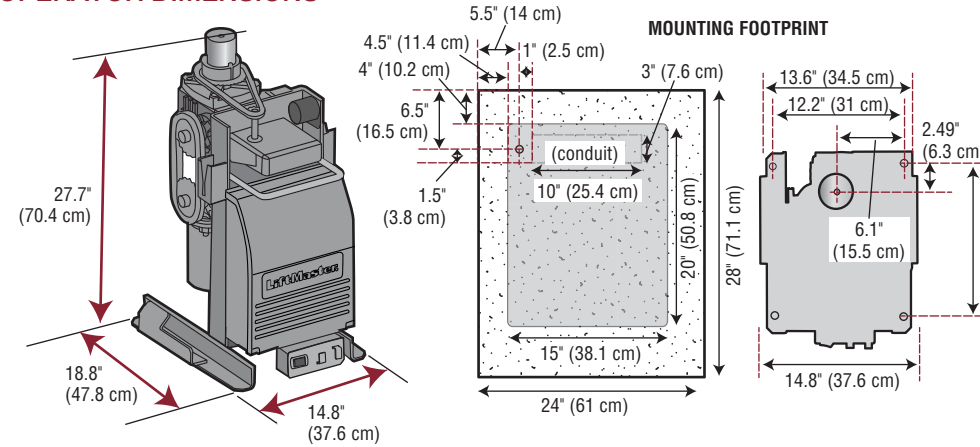


Gate **MUST** have a smooth bottom edge, no protrusions should exist.



INSTALLATION OVERVIEW

OPERATOR DIMENSIONS

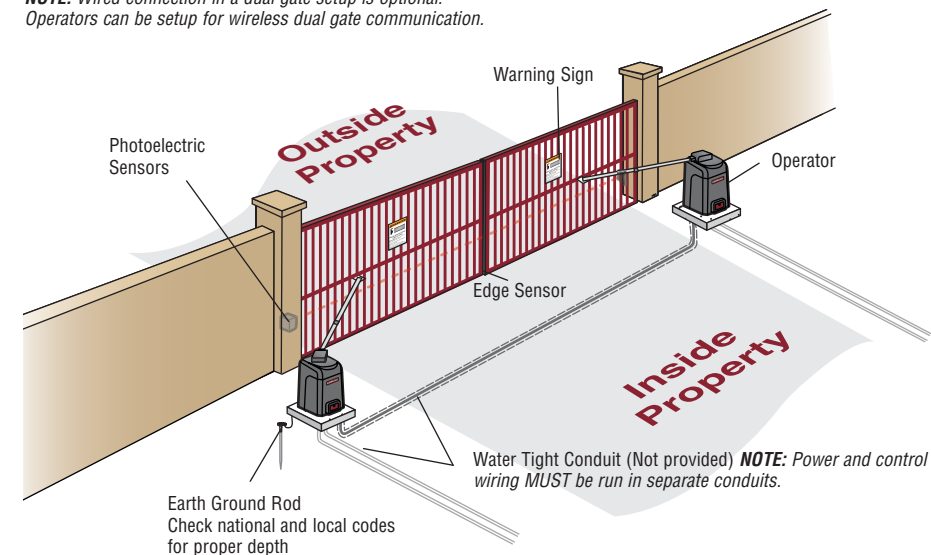


STANDARD DUAL GATE INSTALLATION

OPERATOR POWER SOURCE			
Wire Gauge	EXTERNAL PLUG-IN TRANSFORMER (24 VAC)	Wire Gauge	DIRECT PLUG-IN TRANSFORMER (120 VAC)
18	150 feet (46 m)	14	1150 feet (351 m)
16	250 feet (76 m)	12	1850 feet (564 m)
14	400 feet (122 m)	10	2950 feet (899 m)
12	600 feet (183 m)		
10	1,000 feet (305 m)		

NOTE: Use copper conductors **ONLY**.

NOTE: Wired connection in a dual gate setup is optional. Operators can be setup for wireless dual gate communication.



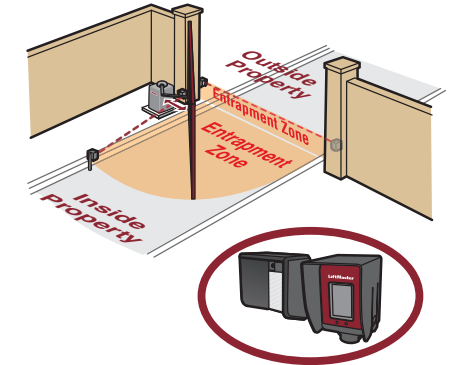
ENTRAPMENT PROTECTION

This operator contains an inherent (internal) entrapment protection system and **REQUIRES** the addition of a LiftMaster external monitored entrapment protection system (non-contact photoelectric sensor or contact edge sensor) for **EACH** entrapment zone prior to gate movement. An entrapment zone is every location or point of contact where a person can become entrapped between a moving gate and a stationary object. Your application may contain one or many entrapment zones. System includes three monitored entrapment protection inputs capable of covering all entrapment zones (and a total of six inputs with the optional expansion board). Use only LiftMaster approved entrapment protection devices.

NON-CONTACT SENSORS

- Model LMTBU**
LiftMaster Monitored Through Beam Photoelectric Sensor
- Model LMRRU**
LiftMaster Monitored Retro-Reflective Photoelectric Sensor
NOTE: LMRRU is provided with the operator
- Model CPS-UN4**
LiftMaster Commercial Protector System®

Entrapment protection is required for the area between the open gate and the operator. Entrapment protection is required for the area between the gate and the curb.



CONTACT SENSORS (EDGE SENSORS)

- Model LMWEKITU**
LiftMaster Monitored Wireless Edge Kit (Transmitter and Receiver)
- Model LMWEXU**
LiftMaster Monitored Wireless Edge Transmitter
- Model L50**
Large Profile Monitored Edge (82 ft. roll)
- Model L50E**
Large Profile Ends Kit (pair, pack of 10)
- Model L50CHP**
Channel for both Large and Small Profiles - PVC (8 ft., pack of 10)
- Model L50CHAL**
Channel for both Large and Small Profiles - Aluminum (10 ft., pack of 8)
- Model S50**
Small Profile Monitored Edge (82 ft. roll)
- Model S50E**
Small Profile Ends Kit (pair, pack of 10)
- Models L504AL, L505AL, and L506AL**
Large Profile Edge - Aluminum Channel (4 ft, 5 ft, 6 ft)
- Models S504AL, S505AL, and S506AL**
Small Profile Edge - Aluminum Channel (4 ft, 5 ft, 6 ft)
- Model ETOOL**
Edge Cutting Tool

For a gate operator utilizing a contact sensor, if the bottom edge of a swing gate is greater than 6 inches (15.2 cm) above the ground at any point in its arc of travel, one or more contact sensors shall be located on the bottom edge.

If utilizing a contact sensor as entrapment protection, one or more contact sensors shall be located on the inside and outside leading edge of a swing gate.

