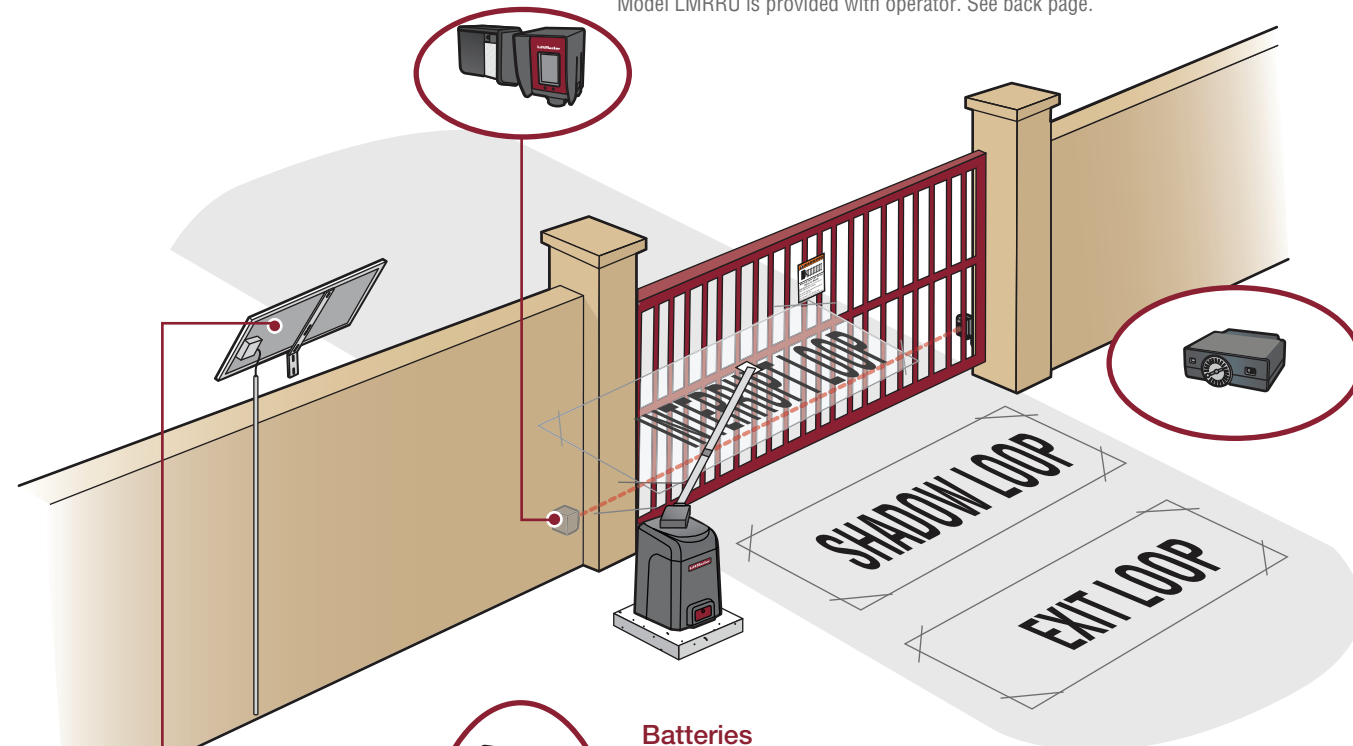


Gate Operator Site Plan

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 batteries provided with operator. Reuse existing harnesses.

33AH

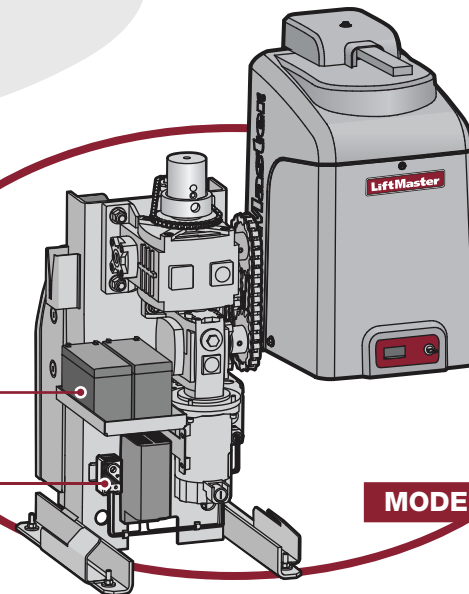
Upgrade 33 AMP-Hour Battery, 12 Vdc. Ideal for extended battery backup. Two required. Requires battery tray and solar battery harness.

Solar Panel

To replace or add a solar panel to the operator application. Requires a solar battery harness. 20W minimum to 60W maximum.

Heater Kit

Protects system to -40° F.



MODEL CSW24U

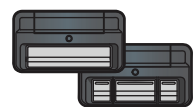
ORDER SUMMARY

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.

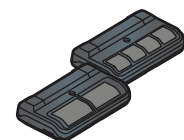
ACCESSORY CHECKLIST

ACCESSORY	MODEL
<input type="checkbox"/> Entrapment Protection Devices	See back page
<input type="checkbox"/> Plug-In Loop Detector	LOOPDETM
<input type="checkbox"/> Universal DIP Single Button Remote Control	811LM
<input type="checkbox"/> Universal DIP Three Button Remote Control	813LM
<input type="checkbox"/> Security+ 2.0® 2-Button Remote Control	892LT
<input type="checkbox"/> Security+ 2.0® 4-Button Remote Control	894LT
<input type="checkbox"/> Wireless Commercial Keypad	KPW250
<input type="checkbox"/> LiftMaster Internet Gateway	828LM
<input type="checkbox"/> 7AH Battery	29-NP712
<input type="checkbox"/> 33AH Batteries	A12330SGLPK
<input type="checkbox"/> Heater Kit	HTR
SOLAR	
<input type="checkbox"/> 10 Watt 12V Solar Panel	SP10W12V
<input type="checkbox"/> 20 Watt 12V Solar Panel	SP20W12V
<input type="checkbox"/> Battery Tray for 33AH batteries	K10-36183
<input type="checkbox"/> 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.



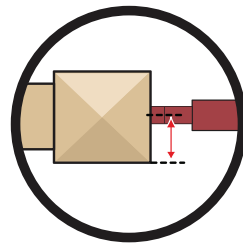
LiftMaster® Internet Gateway

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

For more information:
www.devancocanada.com
or call toll free at 855-931-3334

LiftMaster
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GATE CONSTRUCTION & SITE PREPARATION

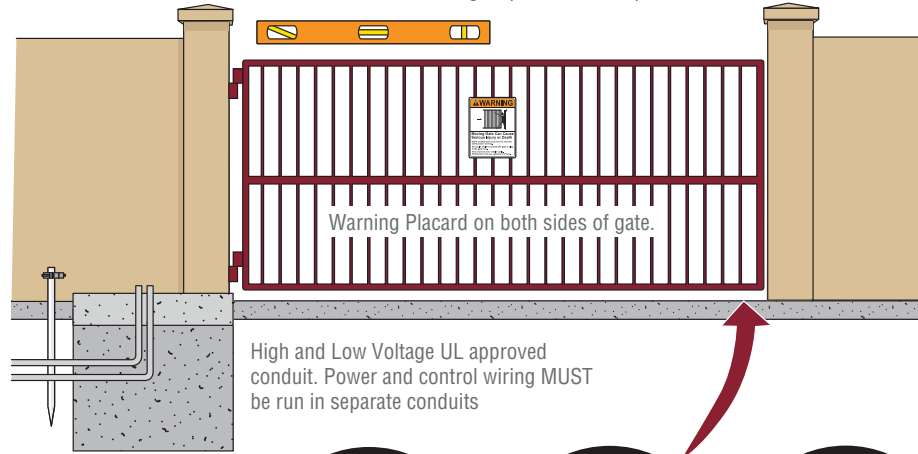


There should only be a maximum of 4" (10.2 cm) from the center of the hinge to the edge of the post or column. If the distance is greater than 4" (10.2 cm) entrapment protection for this area is required.

Maximum gate weight/length:
 1200 lbs. (544.3 kg)/12 foot (3.7 m)
 800 lbs. (362.9 kg)/16 foot (4.9 m)
 600 lbs. (272.2 kg)/18 foot (5.5 m)

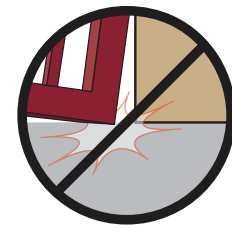
Gate **MUST** swing freely and be supported entirely by its hinges.

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



High and Low Voltage UL approved conduit. Power and control wiring **MUST** be run in separate conduits

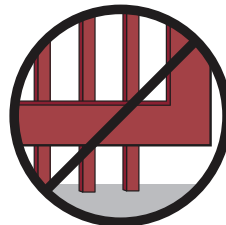
Earth Ground Rod
 Check national and local codes for proper depth



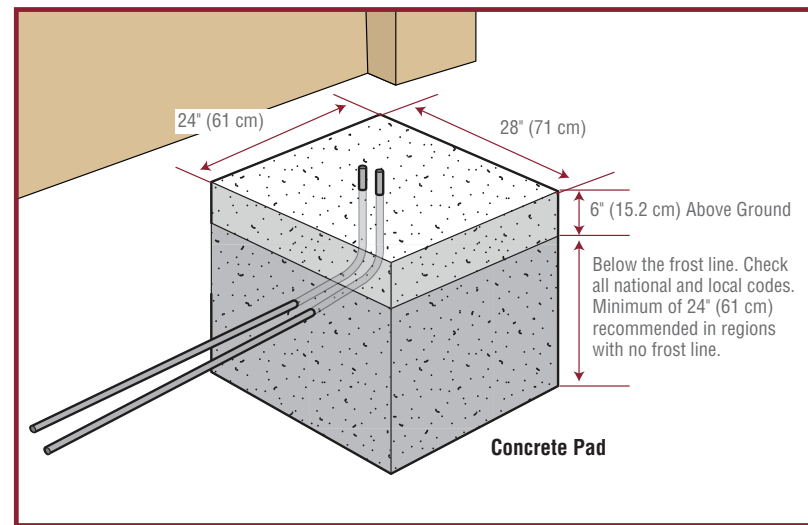
Gate **MUST NOT** hit or drag across ground.



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



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

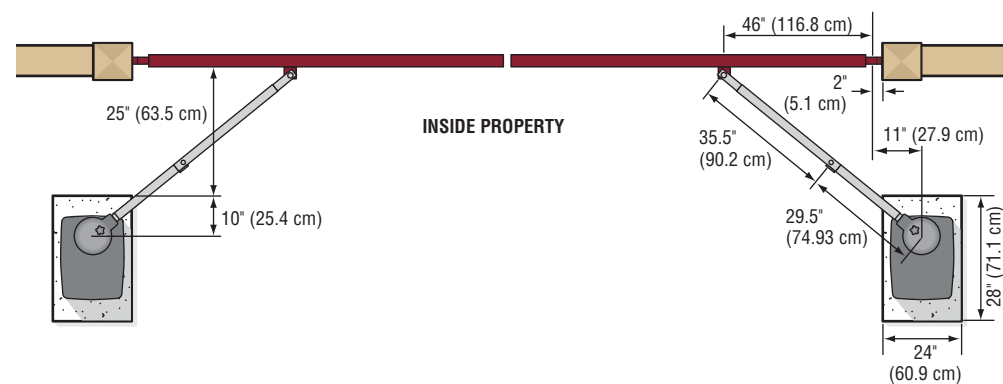
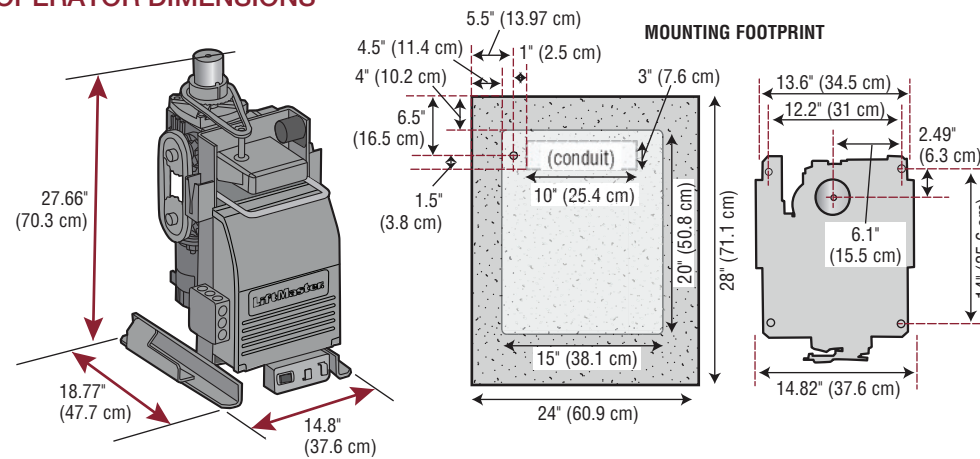


Concrete Pad

6" (15.2 cm) Above Ground
 Below the frost line. Check all national and local codes. Minimum of 24" (61 cm) recommended in regions with no frost line.

INSTALLATION OVERVIEW

OPERATOR DIMENSIONS

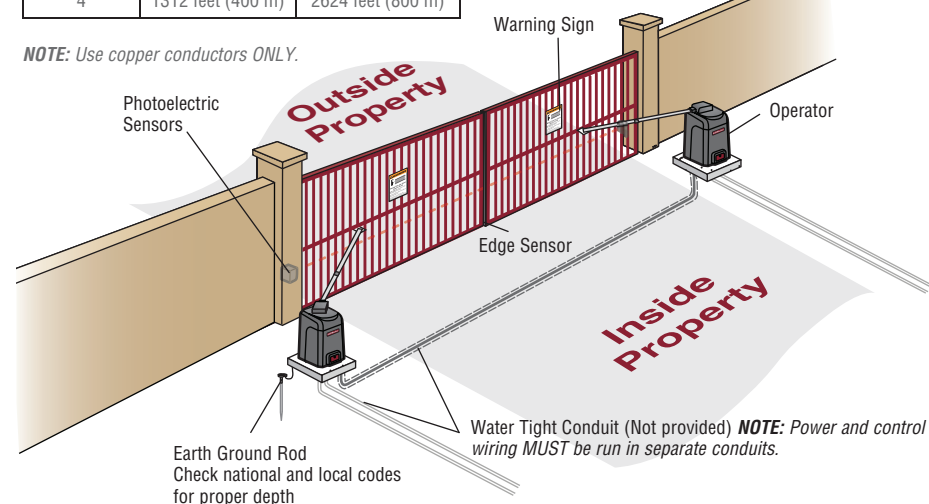


STANDARD DUAL GATE INSTALLATION

OPERATOR POWER SOURCE		
Wire Gauge	120 Vac	240 Vac
14	130 feet (40 m)	260 feet (79 m)
12	205 feet (62 m)	410 feet (125 m)
10	325 feet (99 m)	650 feet (198 m)
8	520 feet (158 m)	1040 feet (316 m)
6	825 feet (251 m)	1650 feet (503 m)
4	1312 feet (400 m)	2624 feet (800 m)

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

NOTE: Use copper conductors **ONLY**.



Earth Ground Rod
 Check national and local codes for proper depth

Water Tight Conduit (Not provided) **NOTE:** Power and control wiring **MUST** be run in separate conduits.

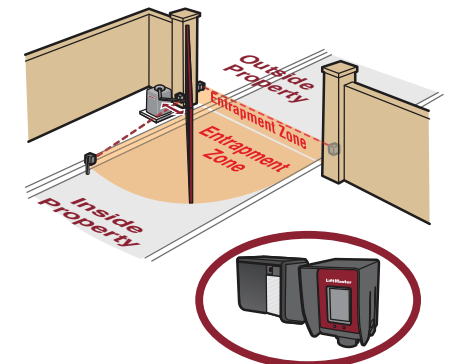
ENTRAPMENT PROTECTION

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 six monitored entrapment protection inputs capable of covering all entrapment zones. 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.

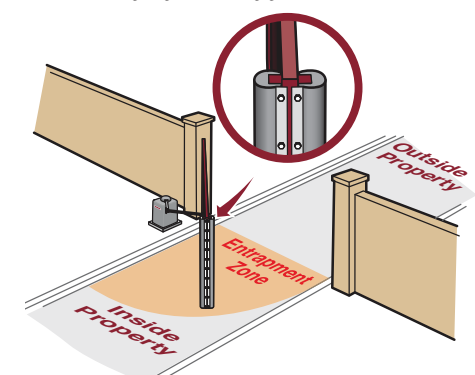
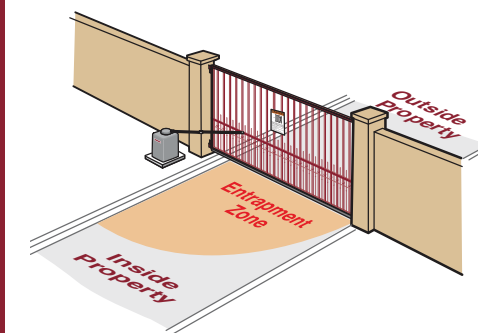


CONTACT SENSORS (EDGE SENSORS)

- Model LMWEKITU**
LiftMaster Monitored Wireless Edge Kit (Transmitter and Receiver)
- Model LMWETXU**
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.



For more information:
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 or call toll free at 855-931-3334

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