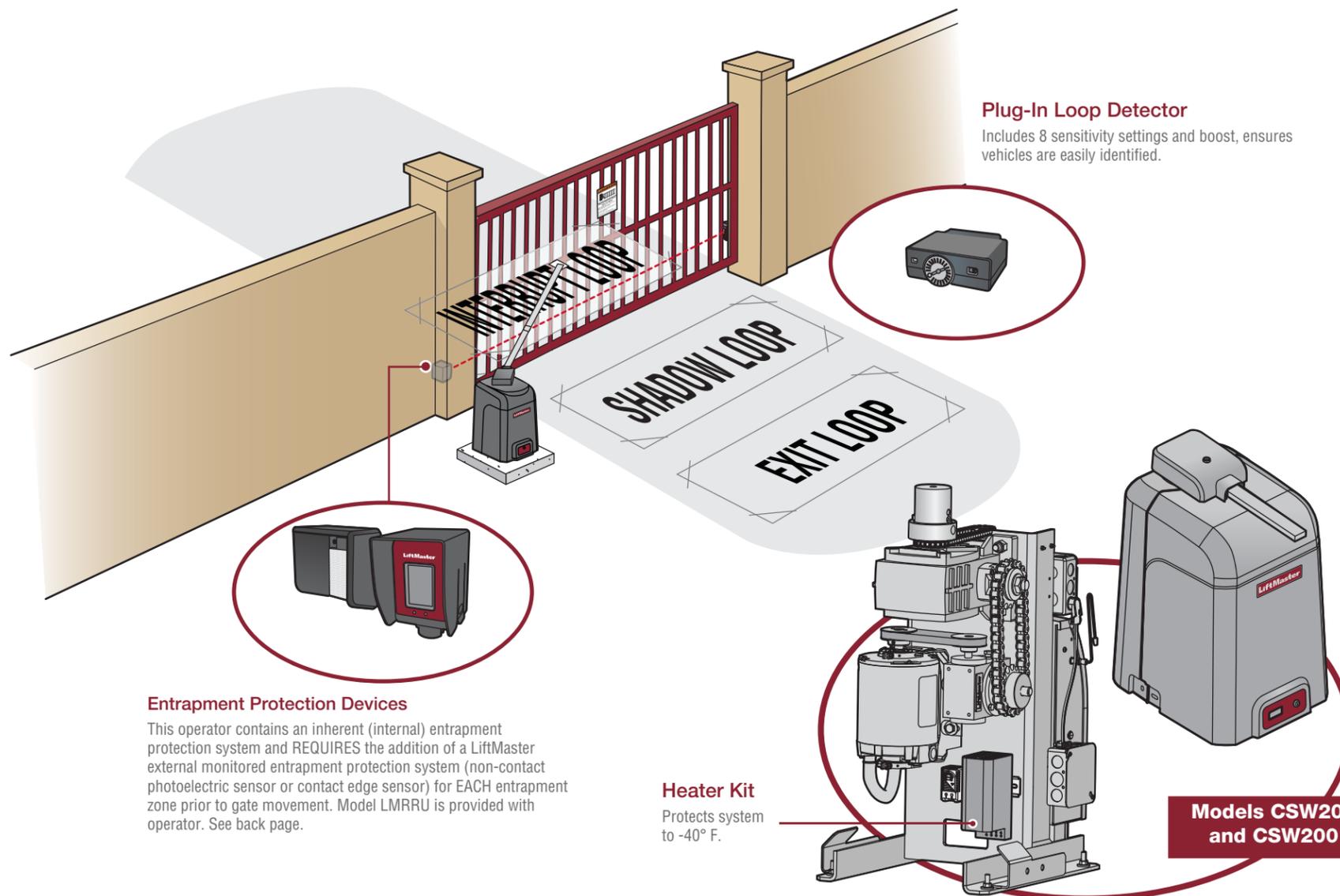


# Gate Operator Site Plan

## ACCESSORY OVERVIEW



**Plug-In Loop Detector**  
Includes 8 sensitivity settings and boost, ensures vehicles are easily identified.

**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.

**Heater Kit**  
Protects system to -40° F.

**Models CSW200501U and CSW200101U**

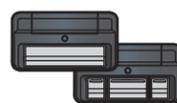
## ORDER SUMMARY

Customer:	Date:
Project:	
Architect/Engineer:	
Contractor:	
Gate Length (ft.):	Gate Weight (lbs.):

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 .....	LOOPDETLM
<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"/> Heater Kit .....	HTRNB



**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**

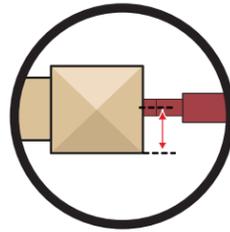
Security+ 2.0® compatible.



**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

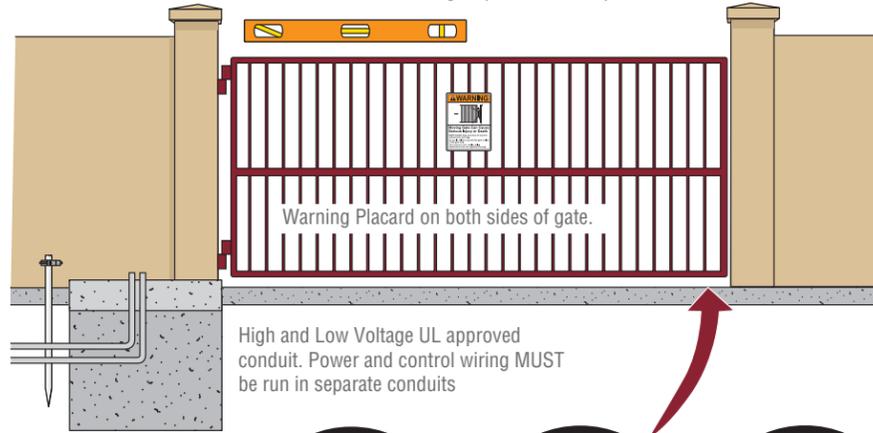


There should only be a maximum of 4" (10.2 cm) from the center of the hinge to the edge of the post or column. If the distance is greater than 4" (10.2 cm) entrapment protection for this area is required.

**Maximum gate weight/length:**  
 Model CSW200501U 1/2 HP: 600 lbs. (272.2 kg), 20 feet (6.1 m)  
 Model CSW200101U 1 HP: 1000 lbs. (453.6 kg), 22 feet (6.7 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



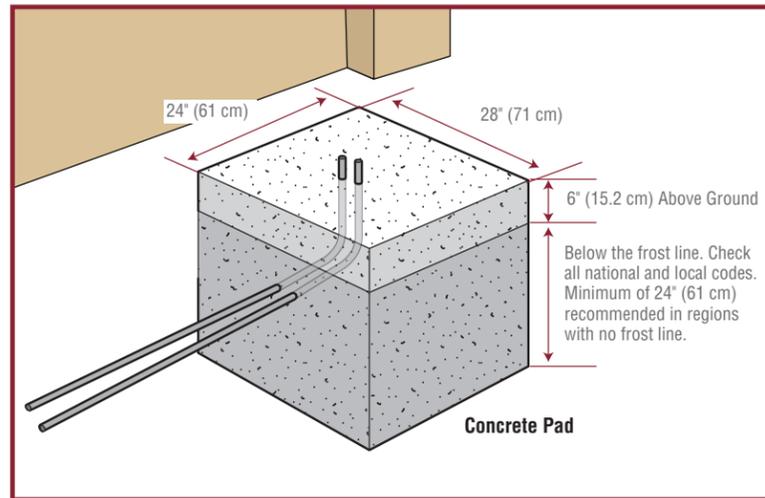
Gate MUST NOT hit or drag across ground.



Remove ANY/ALL wheels from the bottom of gate.



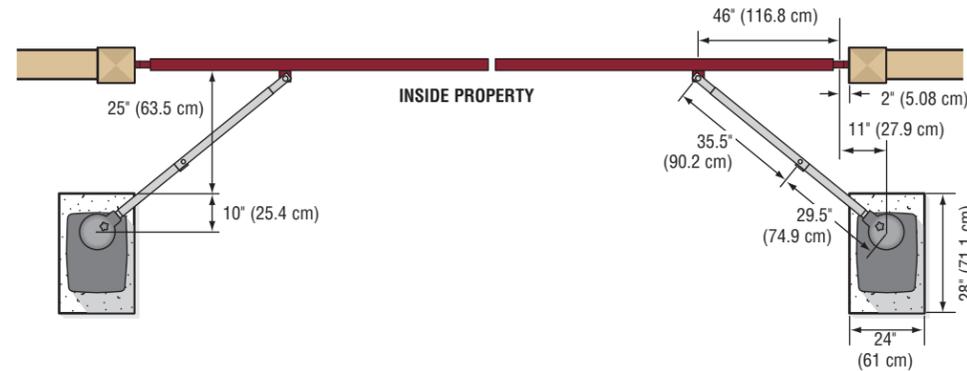
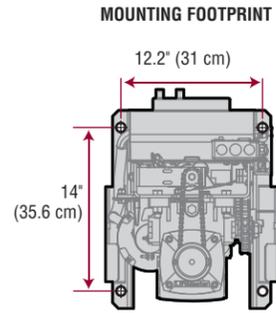
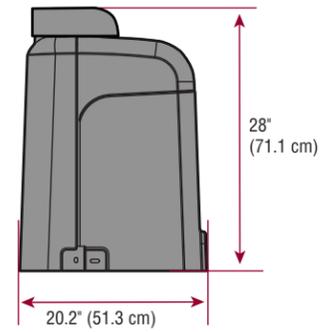
Gate MUST have a smooth bottom edge, no protrusions should exist.



Concrete Pad

## INSTALLATION OVERVIEW

### OPERATOR DIMENSIONS

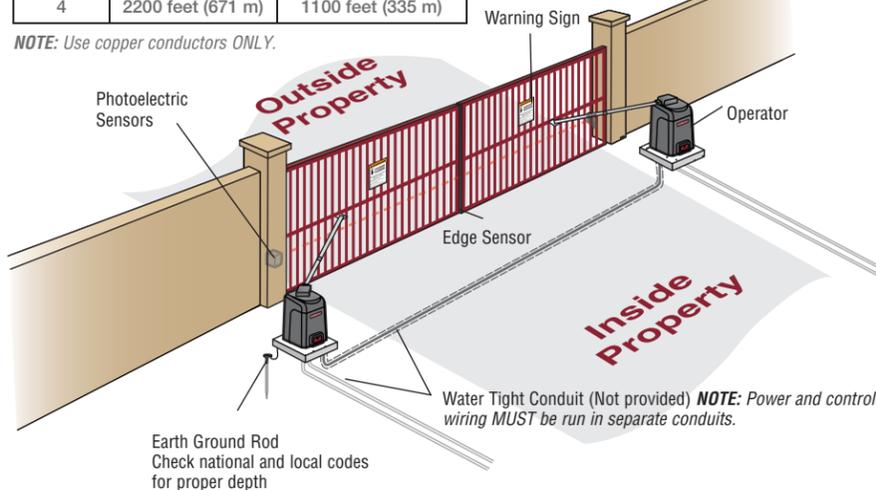


### STANDARD DUAL GATE INSTALLATION

Wire Gauge	OPERATOR POWER SOURCE	
	1/2 HP, 120 Vac	1 HP, 240 Vac
14	250 feet (76 m)	125 feet (38 m)
12	400 feet (122 m)	200 feet (61 m)
10	650 feet (198 m)	325 feet (99 m)
8	1000 feet (305 m)	500 feet (152 m)
6	1500 feet (457 m)	750 feet (229 m)
4	2200 feet (671 m)	1100 feet (335 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

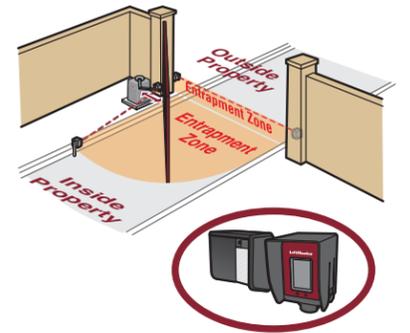
## ENTRAPMENT PROTECTION

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.

