

37737 350 Laredo St North Gate Operators Specifications

(2) Gate Operators – Liftmaster CSL24ULWK with Photo Eye  
High Traffic Commercial Slide Gate Operator with battery back up  
24VDC continuous duty mechanics  
UL usage classification I, II, III, IV  
Meets UL 325 safety standards  
Manual Disconnect

Siren Operated Sensor - SOS-12

Knox Gate/Key Switch – Model 3502  
UL and CSA Listed 7 A, 250 VAC  
SPDT or DPDT

# CSL24UL

24VDC High-Traffic Commercial Slide Gate Operator

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**PRODUCT GUIDE**

**LiftMaster**

POWERED BY myQ.

# CSL24UL

## 24VDC High-Traffic Commercial Slide Gate Operator

This continuous duty operator is ideal for high-traffic applications that demand workhorse reliability. It provides automated entry for all types of commercial facilities and communities as well as visibility and control over your access points via myQ applications.

### Popular features

#### Powered by myQ®

For full insight and control over community and facility access points. Monitor and control multiple communities with Smart Community Control. Improve warehouse efficiency and productivity with Smart Facility Access.\*

#### Smooth Start/Stop Operation

And mid-travel reversal extend operator life.

#### Battery Backup

Provides seamless access by providing standby power when the power is down.

#### Commercial Gear-Driven Transmission

Provides unsurpassed reliability.

#### Manual Disconnect

When unlocked allows gate to be opened manually.



#### Security+2.0®

Safeguards facility access with rolling code technology, opening for registered devices only.

#### Wireless Dual-Gate Communication

Synchronizes gate operation and eliminates costly trenching; set speed independently if needed.

#### Quick Close and Anti-Tailgate

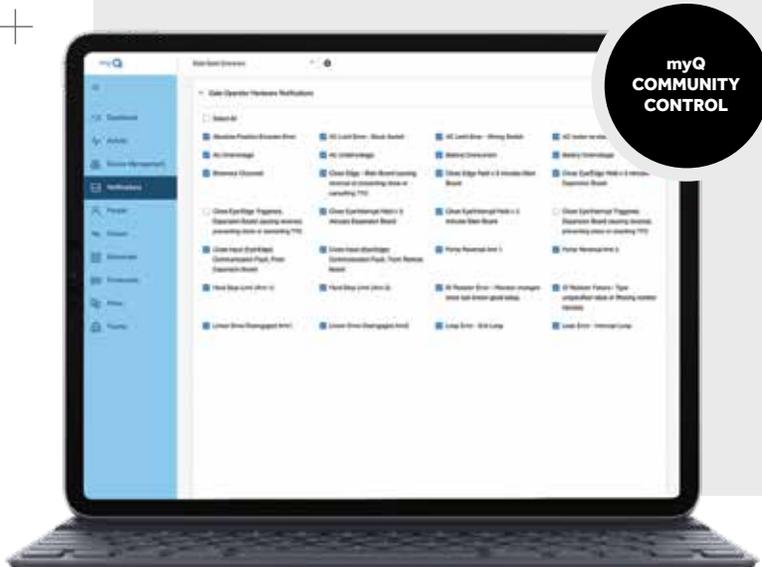
Quickly secures the property, preventing unauthorized access.

#### Fire Department Compliance

Allows gate to auto-open upon loss of AC power or battery depletion.

#### UL® Listed

Gate operators with monitored safety entrapment protection devices.



### Streamline access, enhance security

myQ Community Control is a cloud-based platform that lets you conveniently manage and control multiple access points across all facilities or communities in your portfolio from a single dashboard. With 24/7 monitoring capabilities and real-time activity alerts, you'll know instantly if a suspended code is being used or a there is a nuisance at the entrance.

## The total solution



### **CAPXLV** **Connected Access Portal, High-Capacity with Video**

Cloud-based access control for residential communities and facilities alike; plus enhance your monitoring capabilities with subscription-based live video streaming and recorded events.



## Compatible accessories

### **LMTBUL**

#### **Monitored Through-Beam Photo Eyes**

Includes a heater for high performance in most environments; max. range: 90 ft.

### **LMWETXU**

#### **Monitored Wireless Edge Transmitter**

Low-energy Bluetooth® connection between a LiftMaster Monitored Resistive Edge and the gate operator; max. range: 130 ft.\*

### **EDGES**

#### **Monitored Safety Entrapment Edges**

Small/large edges that sense obstructions.

### **LOOPDETLM**

#### **Plug-in Loop Detector**

Prevents a gate from closing on a vehicle; efficient for max cycles on battery backup.

### **828LM**

#### **Internet Gateway**

Connects myQ-enabled gate operators to the Internet for control through the myQ app.

## Included accessories

### **LMRRUL**



#### **Monitored Retro-Reflective Photo Eye**

Enhanced retro-reflective photo eye now with heater and wider beam, engineered to stay aligned; max. range: 50 ft.

### **S505AL**



#### **Monitored Small Profile Resistive Edge**

Senses obstructions.

### **LMWEKITU**

(CSL24ULWK ONLY)



#### **Monitored Wireless Edge Kit**

Low-energy Bluetooth® connection between a LiftMaster Monitored Resistive Edge and the gate operator; max. range: 130 ft.\*

## Specifications

### Mechanics

- 24VDC continuous duty
- Operator duty rating: high-cycle, high-temperature continuous duty
- Commercial oil-bath gearbox provides 10:1 wormgear reduction
- Chain: #41 black oxide (30 feet supplied)

### Power

- 120/230V single-phase
- 3PHCONV optional kit converts an input voltage of 208/230/460/575VAC to an output voltage of 120VAC
- Solar-ready ultra-reliable system delivers power when you need it (LMRRUL/LMTBUL heater option not recommended for solar applications)
- Accessory power: 24VDC 500mA output; switched and unswitched power

### Commercial-Grade Design

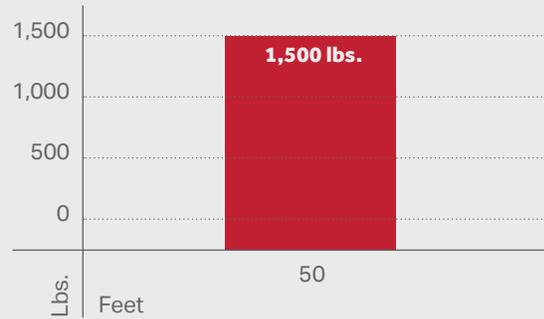
- Chassis constructed with 1/4 inch black powder-coated steel for rust prevention
- Cover: high-density, UV-resistant polycarbonate 2-piece cover for excellent heat/corrosion resistance
- UL® usage classification: I, II, III and IV
- Operator weight: 140 lbs.

### Features

- Inherent reversing sensor: detects obstructions and reverses gate
- Monitored safety inputs: 3 main board, 3 expansion board
- LED diagnostic display: simplifies installation and troubleshooting
- Programmable auxiliary relays: make adding additional features easy
- Security+2.0® on-board radio receiver: up to 50 remote controls (unlimited with 811LMX/813LMX)
- Posilock®: automatically closes the gate when it is pushed from the closed limit
- HomeLink® compatible: version 4.0 or higher\*

### Slide Rating

\*Cellular data or Wi-Fi® connection required. Test equipment regularly and follow safety instructions.



### Temperature

Without heater	-4°F (-20°C) – 140°F (60°C)
With heater (HTR)	-40°F (-40°C) – 140°F (60°C)

### Dimensions

Chassis	15.6" W (39.5 cm)	25.1" H (63.7 cm)	19.5" D (49.6 cm)
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### Warranty

- 7 years residential
- 5 years commercial

## Business partners

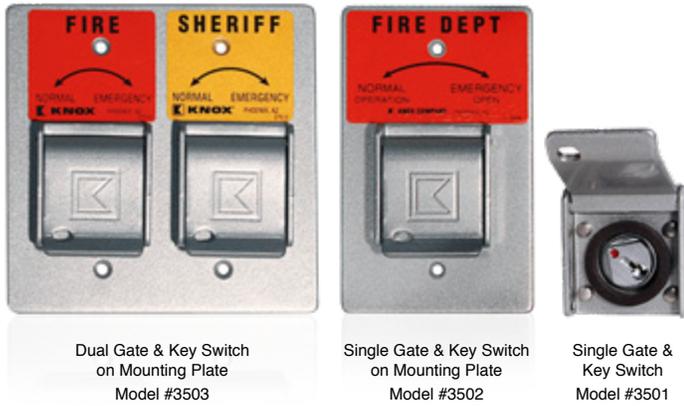
**For Sales** | 800.282.6225

**For Technical Support** | 800.528.2806

**For Billing** | 800.323.2276

**To Learn More** | [LiftMaster.com/UL325Gates](https://LiftMaster.com/UL325Gates)

Eliminate perimeter barriers that delay emergency response with the Knox Gate & Key Switch. Override electronic gates and lower voltage equipment to allow emergency access into communities, apartment complexes, parking garages, pedestrian gates, industrial receiving areas and much more.



## FEATURES

- ✓ One position, two position or momentary switch
- ✓ Face plate and lock cover ensure weather resistant operation
- ✓ Dual locks enable shared access with other agencies

## BENEFITS

- ✓ Gain rapid access through electronic gates without forced entry
- ✓ Overrides electronic gates, motorized doors, electrical switches
- ✓ Can share access with multiple agencies
- ✓ Utilizes Knox Master Key solution

## OPTIONS

- ✓ Single or dual key switch
- ✓ Fire, EMS, security or law enforcement identification labels

## ELECTRICAL DATA

- ✓ Switch: SPDT or DPDT
- ✓ 7 A resistive, 4 A inductive, (sea level), 28 VDC
- ✓ 7 A resistive, 2.5 A inductive, (50,000 ft.), 28 VDC
- ✓ 7 A resistive or inductive, 115 VAC, 60 Hz
- ✓ UL® and CSA listed: 7 A, 250 VAC
- ✓ Temperature tolerance up to +180° F

## ORDERING SPECIFICATIONS

To insure procurement and delivery of the Knox Gate & Key Switch, it is suggested that the following specification paragraph be used:

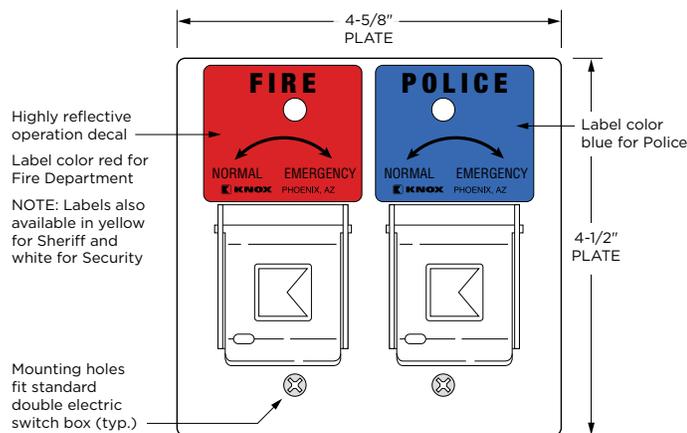
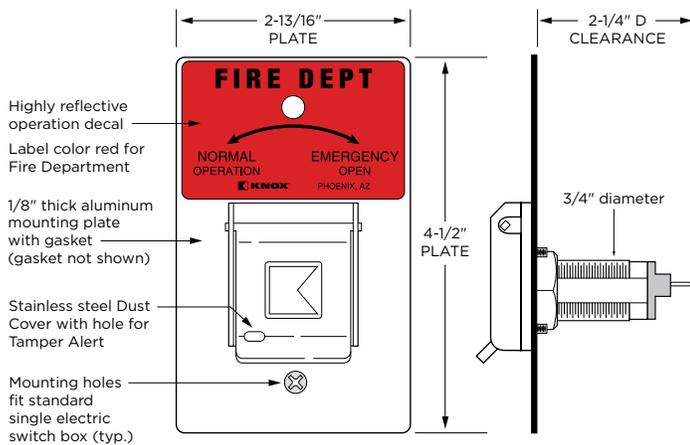
**Dimensions:** Requires 2 1/4" recessed depth x 3/4" diameter

**Switch:** SPDT or DPDT; 7 A resistive, 4 A inductive, key removable two position

**Mounting:** Key switch is designed to be recess mounted

**P/N:** 3500 Series Knox Gate & Key Switch (mfr's cat. ID)

**Mfr's Name:** KNOX COMPANY



## ABOUT KNOX COMPANY

Over forty years ago, a unique concept in rapid access for emergency response was born. The KnoxBox®, a high-security key lock box, was designed to provide rapid access for emergency responders to reduce response times, minimize injuries and protect property from forced entry.

Today, one revolutionary lock box has grown into a complete system providing rapid access for public safety agencies, industries, military, and property owners across the world. The Knox Company is trusted by over 14,000 fire departments, law enforcement agencies, and governmental entities.

## For Emergency Override



Gated communities, apartment complexes, parking garages, pedestrian gates and industrial receiving areas are just a few applications of the Knox<sup>®</sup> electric override key switch. It can be ordered with single or dual key options for fire, EMS and law enforcement access.

### Features and Benefits

- Single or dual key switch
- Fire, EMS or law enforcement identification labels
- One position, two position or momentary switch
- Face plate and lock cover ensure weather resistant operation.

### Electrical Data

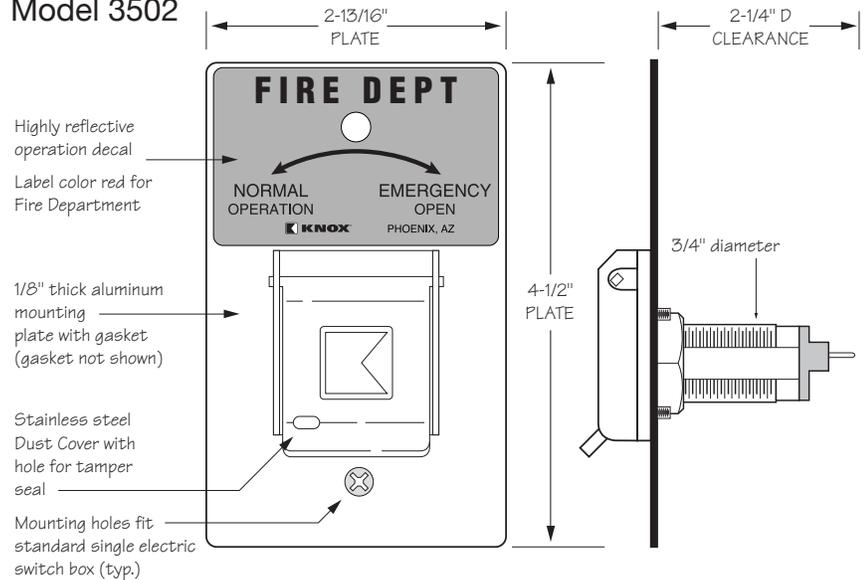
- SWITCH: SPDT or DPDT
- 7 A resistive, 4 A inductive, (sea level), 28 VDC.
- 7 A resistive, 2.5 A inductive, (50,000 ft.), 28 VDC.
- 7 A resistive or inductive, 115 VAC., 60 Hz.
- UL<sup>®</sup> and CSA listed: 7 A, 250 VAC.
- Temperature tolerance up to +180° F.

#### Knox<sup>®</sup> Rapid Entry System

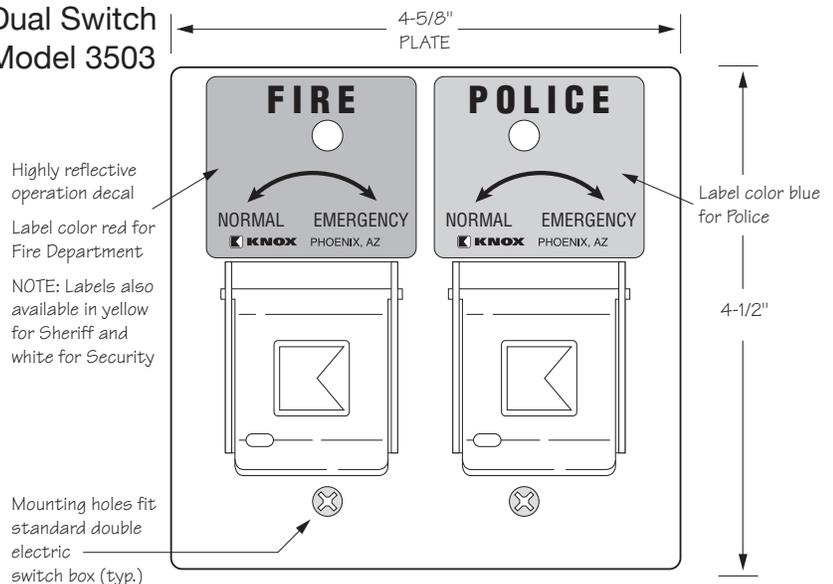
The Knox Company manufactures a complete line of high security products including KnoxBox key boxes, key vaults, cabinets, key switches, padlocks, locking FDC caps, plugs and electronic master key security systems. For more information or technical assistance, please call Customer Service at 1-800-



### Single Switch Model 3502



### Dual Switch Model 3503



### Ordering Specifications

- Dimensions: Requires 2 1/4" recessed depth x 3/4" diameter
- Switch: SPDT or DPDT; 7A resistive, 4A inductive., key removable two position.
- Mounting: Key switch is designed to be recess mounted.
- P/N: 3500 Series Knox Gate & Key Switch (mfr's cat. ID)
- Mfr's Name: **KNOX COMPANY**

The Original



# SOS®

## Siren-Operated Sensor

*The Nation's Most Widely-Used Uniform Emergency Access*



### SOS Makes ALL Gates 911 Accessible

Since 1992 the original Siren Operated Sensor (SOS) has been used to open residential, commercial, airport, government and military gates during an emergency. SOS is currently used throughout North, South and Central America as well as in Europe. If you need your gates, doors, parking arms, barriers or roll-up doors to open for emergency responders, then you need an SOS installed on each of these devices today!

Once the "Yelp" siren has been recognized for 3 seconds a trigger is sent to open the gate. The SOS is the most cost effective way for emergency responders to access your home or business without stopping or leaving their vehicle to enter a code or use a key.

The reliability of the SOS Emergency Access System has made it mandatory in many communities throughout the world. Making your gate siren activated is a big step to saving lives and property.



- 5-year warranty
- NEMA 4 enclosure – design to go unnoticed
- Larger internal gaskets for more protection
- Up-front microphone for faster detection
- The latest in electronic design and circuitry



### Remote Microphone

- Place up to 50 feet from the SOS-12
- Install the SOS-12 out of site, in a guard shack or any other remote location



**This is NOT an SOS product**

The Original



# SOS<sup>®</sup>

Siren-Operated Sensor

The Nation's Most Widely-Used Uniform Emergency Access



800-767-4283

www.sosgate.com

## Installation instructions for the SOS 12

As with all our past units this SOS carries a 5 year warranty. The warranted is voided for the following:

- Holes drilled into the board chamber
- Water damage to the unit
- Burned boards—due to power surges or apply the wrong power
- Physical damage to the circuit board.

The area outlined in yellow is the board chamber. Drilling any holes inside this area or through its sidewalls will void the warranty.

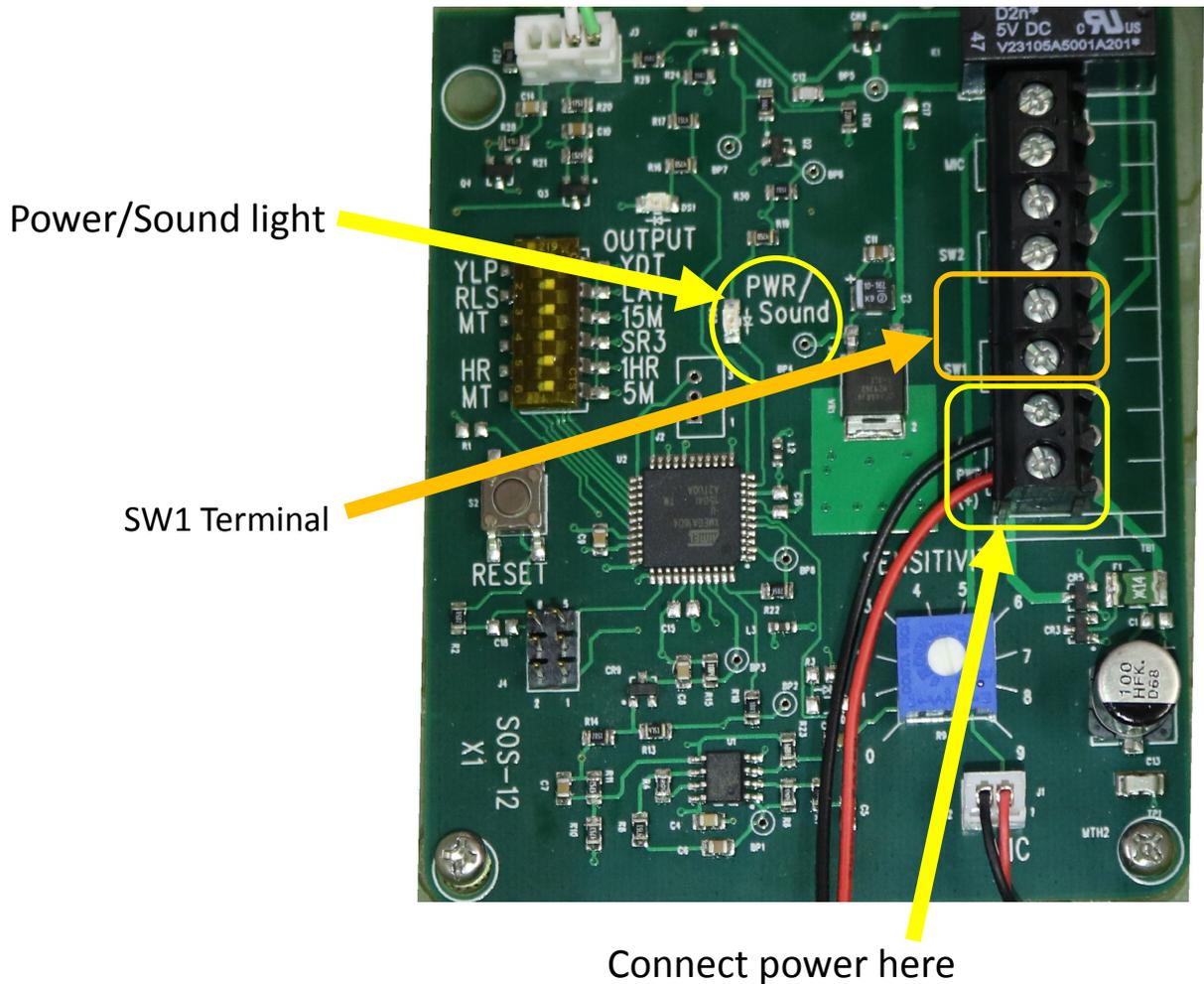


1. Remove the face plate of the SOS 12 unit.
2. Find a location INSIDE the fence to mount the SOS 12. Do not put the unit inside the gate operator enclosure or next to any noisy machinery that will interfere with the sensor picking up the sound of the siren.
3. Using the screws provided, mount the SOS 12 with the microphone facing the oncoming emergency vehicle. The enclosure has four pre-drilled holes for mounting.

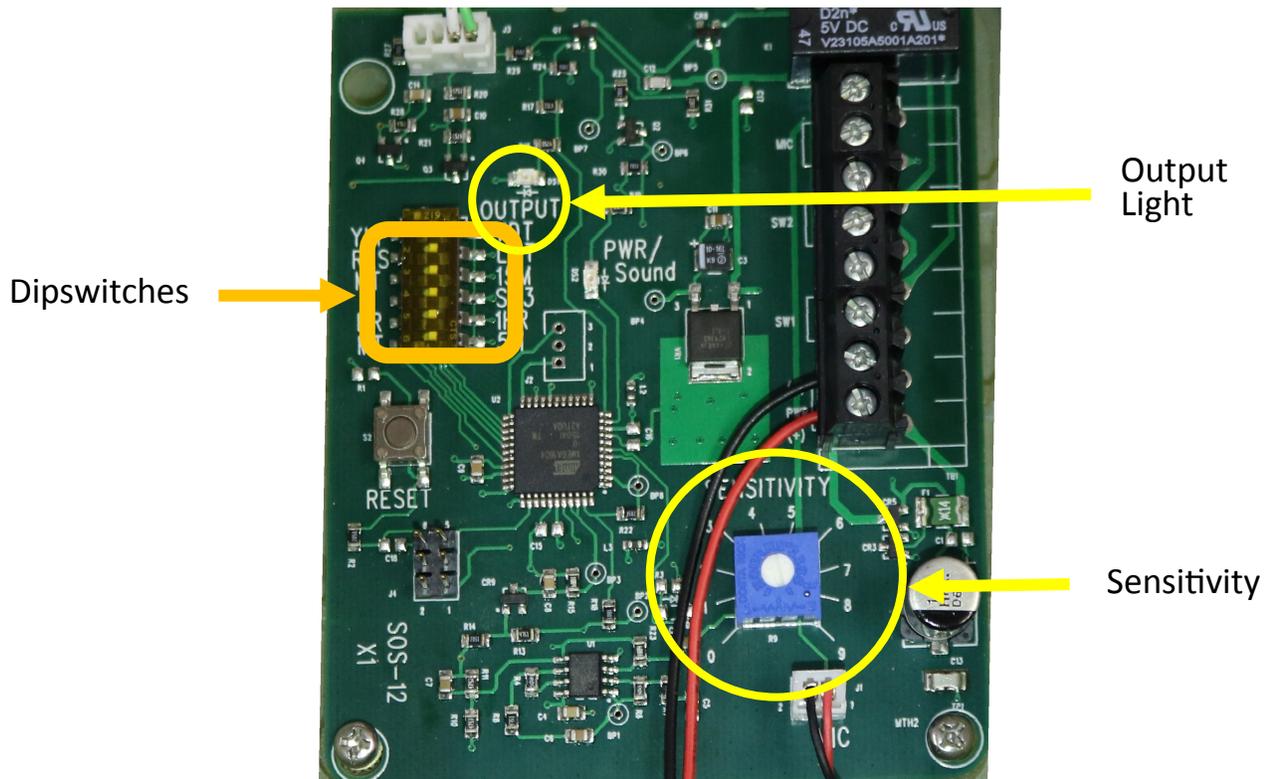
**NOTE:** If mounting the SOS onto metal, do not allow metal shaving to remain in the enclosure.



4. Run a positive and a negative wire 18—22 AWG stranded (not included) from a power source such as the gate operator or a battery. The power can be 9 to 24 volts DC or 9 to 16 volts AC.
5. Once power is connected the Power/Sound – amber light LED will blink every 10 seconds.



6. Connect a wire 18—22 AWG stranded wire to a NORMALLY OPEN terminal on the gate operator control board. Connect a second wire 18—22 AWG stranded wire to a COMMON terminal on the gate operator control board.
7. **TEST** by touching these two wires together momentarily and the gate should open. Some times the gate operator control board has a “FIRE” or “SIREN” terminal if it is not NORMALLY OPEN the SOS unit will not function properly.
8. Now attach the wires from Normally Open and Common to the SW1 Terminals.



## TEST UNIT

9. Begin testing by turning the sensitivity dial clockwise to setting 8.5.
10. Using the Yelp Siren CD provided, or download the MP3 yelp off our website [www.sosgate.com](http://www.sosgate.com) onto your mobile device, play it at the loudest volume setting. Hold your device close to the microphone the PWR/Sound light should come on solid and the output light should come on as the gate opens within 3 seconds.
11. Test the unit now with a live siren. You want to have the sensitivity setting as low as possible but still able to open the gate with a live siren. The main reason for the SOS not triggering the gate open is that they are using a different siren sound than “YELP” or they are only leaving their siren on for 1-2 seconds.
12. Have the emergency responder sound their “YELP” siren. If the gate does not open within 3 seconds, verify that the PWR/Sound light is coming on solid. If PWR/Sound light is solid and the gate still does not open turn up the sensitivity. The output light must come on before an open trigger is sent to the gate operator.

**Note:** Every time the siren is interrupted or changed the digital processor begins the process over again, this internal reset can take several seconds.

The SOS 12 has 6 dipswitches they control what type of sound will trigger the unit and how long the unit will hold the gate open once it has been triggered. All the dipswitches are in the “off” position when it is shipped from the factory.

**Dipswitch 1:** In the off position “YLP” the sensor will open the gate with a yelp siren within three seconds. In the on position “YDT” the sensor will open the gate to any sound that reaches the correct decibel level for 5 seconds. This is usually used to allow other siren tones to open the gate. The sensitivity dial controls how high the decibels need to be to open the gate.

The remaining dipswitches all determine how long the unit will hold the gate open after it has been triggered. When they are all off the gate will open and run through its normal cycle—usually letting only one vehicle through the gate. If you choose to have a dipswitch on only one of them should be one at a time.

**Dipswitch 2:** In the on position “LAT” the unit will latch the gate open until someone pushes the reset button.

**Dipswitch 3:** In the on position “1HR” the unit will hold the gate open for 1 hour or until someone pushes the reset button.

**Dipswitch 4:** In the on position “15M” the unit will hold the gate open for 15 minutes or until someone pushes the reset button.

**Dipswitch 5:** In the on position “5M” the unit will hold the gate open for 5 minutes or until someone pushes the reset button.

**Dipswitch 6:** Is not being used at this time.

## Trouble Shooting the SOS

1. The number on reason for the SOS to not open the gate is that the emergency responder is not using the “YELP” siren. If they use a different siren the gate will not open.
2. Check that the Power/Sound blinks about every 4 seconds. If blinking go to step 3.
  - a. If the light is not blinking you do not have power to the board or the board has been damaged.
    - i. Confirm that the boards is receiving 9-30 volts DC or 9-16 volts AC.
    - ii. If the board is receiving the proper power and the Power/Sound light is not blinking the board has been damaged and needs to be replaced. If under the 5 year warranty return it to us at:
      1. SOS  
702 Fairfield St. W.  
Twin Falls, ID 83301
3. Make a noise — (play the siren, whistle, yell) — While doing this the Power/Sound light should come on solid while the noise is being made. If the light comes on go to step 4.
  - a. If the light does not come on solid then there is something wrong with the microphone or the Potentiometer is too low.
    - i. Turn the Potentiometer up to 8.5 & make a noise again. If the light comes on solid go to step 4.
    - ii. Unplug and plug back in the microphone from the board. This is a white connector below the potentiometer. Make noise again — if the light does not come on solid the microphone is bad.
      1. Contact us at 208-734-0467 to purchase a new microphone.
4. Sound the “YELP” Siren for at least 5 seconds. If you are using a hand held device or car stereo turn the potentiometer to 8.5. The output light should come on solid and the gate should open.
  - a. If the light does not come on and the Siren is the “YELP” the board is damaged and needs to be replaced.
  - b. If the output light comes on but the gate does not open.
    - i. Take the wire out of SW1 or SW2 that lead to the gate. Touch them together the gate should open.
      1. If the gate does not open ensure those wires are connected to the normally open and common terminals on the gate operator.
    - ii. If the gate opens then there is something wrong with the relay on the board and will need to be sent to us for repair or replacement.
5. If the gate is opening without a siren present.
  - a. The potentiometer needs to be turned down and the first dipswitch needs to be in the YLP position.
  - b. Arrange to have a courtesy visit from an emergency vehicle so that the potentiometer can be set as low as possible but still open the gate.