

SOS II

Looking down on the circuit board, identify the four small switches. The switches may be set to the desired "mode", (left or right) as follows:

1. YLP-YWH Yelp (decible time)
2. FST-SLO Fast - or Slow to Trigger
3. RLS-LAT Release - or - Latch Relay
4. MT-15M Momentary - or - 15 Minute Relay hold



The SOS II now has it all in a single small package.

Here are a few advantages with no change in price.

- Wider operating voltage range. The SOS now operates on 9 to 30 Volts, AC or DC
- When power is applied, the LED will blink slowly amber.
- The amber LED turns off and the green LED activates once a siren has been detected and the relay closes.
- The amber LED is on steadily only when the received sound is above the threshold sensitivity setting and the SOS is trying to discern a siren. If a sound does not have a high enough frequency to be a siren it is rejected.
- Higher selectivity. The SOS is now more selective about what sounds constitute a siren.
- The screwless wire connector is fast and easier to install.
- Double relay closures for use on dual (in and out) gates providing wider fire equip. entry.
- Smaller size (4.7 x 3.13) and lower power consumption, yet more user selectable options:
 - Siren pattern recognition is 'Yelp' Decibel Time concurrently.

- User selectable 'fast or slow' detection response to any one of the chosen siren options
- User selectable relay action. Relay duration can be set to momentary, 15 minute or latch until reset.
- Latch mode can be cleared by pressing the reset switch, or removal of power temporarily.
- All SOS products have a 5 year limited warranty if installation instructions are followed.
- It is the gate owner's responsibility to periodically verify SOS functionality.

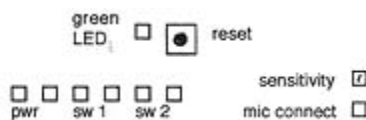
Mounting The SOS II

All gate operators use low voltage for their electronic controls. (AC or DC) and this can also be used as your SOS power source. If unfamiliar, use a long 4 conductor cable (24 gauge stranded) for testing, thereby allowing options for the best permanent mounting location. Some installers mount the SOS inside their larger gate control box, but just be sure the "Yelp" sound can reach it without distortions. CAUTION: If mounting the SOS onto metal, do not allow drilled metal pieces to collect onto the magnetic field that is present around the back side of the microphone.

*Locate the SOS **inside** the fence!!* In higher security installations, one may wish to place it high and out of reach, and/or at some farther distance away. Since the sensitivity and location of the SOS is variable, one can require a high volume of "Yelp" sound. This would thwart pernicious or "sneaky" attempts to open the gate.

While deciding on the best permanent mounting location for the SOS, remember that the omni directional microphone should be facing down. Mounting holes are located in the four corners inside box, drop screw **inside of the indentures**, but **outside** of the weather seal, screws provided.

If you **must** drill into the back of the SOS enclosure, do so through either of the two raised portions (left or right) of the mic sponge using the same size hole. Get a tight fit and seal out moisture. Moisture damage will negate warranty.



Connecting to Test the "Yelp"

Press clear down on orange lever to connect wires. Connect 9 to 30 VAC or DC to the + or -. Polarity does not matter. The amber light will slowly blink. Connect the two relay wires from the OPEN-gate terminals into sw 1 or sw2.

To test for a proper gate hookup, touch a jumper between the NO and COM (there are two) they are SW 1 & SW 2. This should trigger the gate to open, as if by the SOS relay closure. The "Yelp" tape provided and used with the player held close to the mic, will trigger the relay closure & flash a green LED within 2.5 seconds. If the "mode" switch is pushed away from #1 the SOS will respond to the YELP, WAIL, or HI LO within 2.5 seconds. The DT (decibel time) 6 seconds.

Adjusting the SOS with a Live Vehicle "Yelp"

(Most emergency responders will gladly help test)

The sensitivity is factory set at "normal". Full sensitivity (clockwise) is seldom needed. If the vehicle is using a "Yelp" sound similar to the demo tape the amber light should come on steadily, and the relay will close in 2.5 seconds or less. If the amber light does not come on steadily, advance the sensitivity and test again.