

SIR40S Siren and Strobe

INSTALLATION INSTRUCTIONS

Description

The SIR40S is an outdoor, self-contained, integrated siren and strobe light enclosed in enhanced metal box (new design at 2018). The siren includes four siren horns, using 4 horns improves reliability and provides higher sound level. The SIR40S includes 13.6V charger for 12V-7AH back-up battery. During alarm the siren and strobe light are activated. The SIR40S is compatible with most alarm panels that supplies 13.6V at standby and Low (zero V) at alarm mode, provides siren activation if the siren wire cut or tampered. Requires power supply 13.6V-0.5A or higher when operated with battery.



Terminal Block and Jumpers

+13.6	+13.6V DC input to supply the power and charging voltage. Consider 350 mA for charging the back up 12V-7 AH battery. Connect this terminal to the control panel +V Aux. Power
- 13.6	-13.6V DC input. Connect this terminal to the control panel -V Aux. Power
LB	Supply -V when battery low detected (10V)
TMP	Tamper output contacts – Connect to a 24H or Tamper zone
-TR	Trig-In terminal, supply -V to trig the SIR40S. Connect to -SIR
JP1	When jumper is in: Alarm when the 13.8V is off. Jumper removed: No alarm
JP2	Strobe mode: Constant DC or Flashing

Internal siren connections

+/- SPK	Positive and negative horn speaker – The horn speaker in the SIR40S is connected here
+/- ST	+/- DC power for strobe light

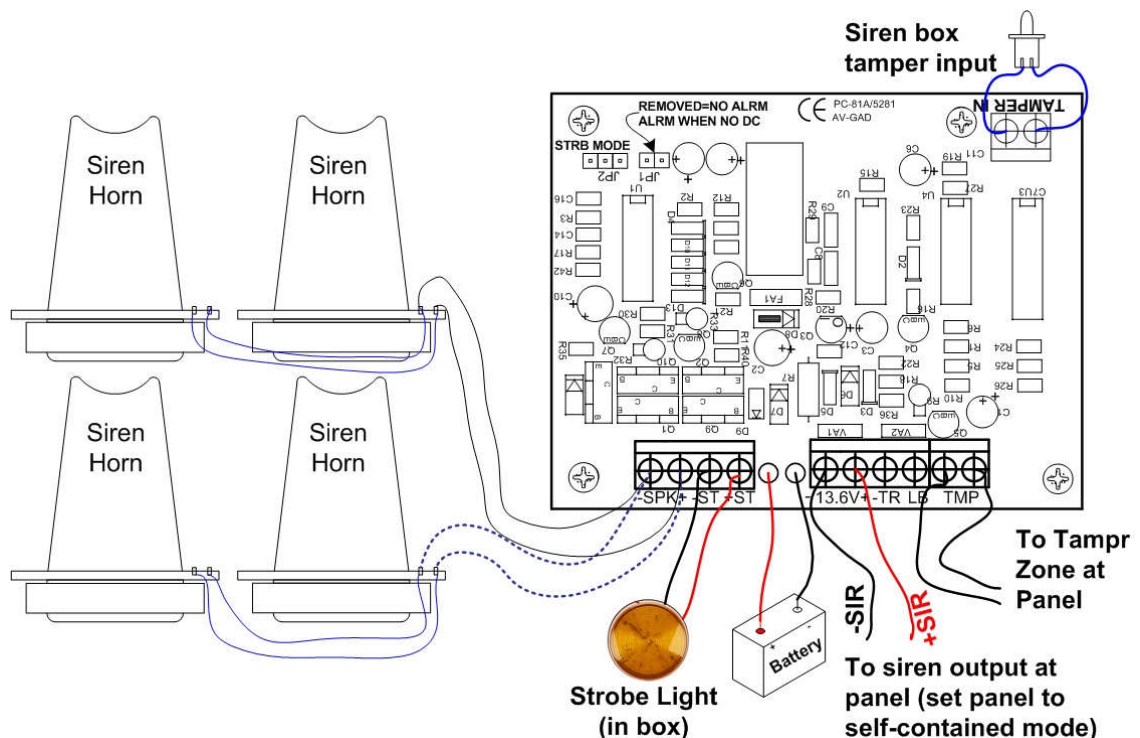


Figure 1: SIR40S wiring diagram

Step One: SIR40S Wires Terminal Connections

Open the front cover by removing the screw. Locate the siren box in a hard to get place, as high as possible, at dry and far from water and rain reach.

For EasyLoader alarm panels (several models) refer to figure 1.

Program address 072 option 1 (Bell Mode) and at address 073 option 3 (Enable-Self contain Bell, 0V at alarm): -SIR supplies +V during standby and -V at alarm in this mode. The SIR supplies 13.6V DC at idle and about 1V at alarm.

Other option connect the +13.6V at siren to Aux. Power and '-TR' at SIR40S to -SIR at alarm panel. For other applications contact us for solution.

Step Two: Wiring

1. DC Power and battery disconnected.
2. For special strobe application, power the strobe from the control panel, disconnect the strobe wire from -ST and +ST at the SIR40S.
3. Wire the Tamper from 'TMP' (two wires terminal) to a zone in the control panel. Program the Tamper zone as 24H or Tamper type.
For siren Low Battery indication wire the LB terminal to any zone, recommended to program this zone as Tamper.
4. Connect the panel's Aux. Power to '+/- 13.6V' terminals verify polarity; don't power-up the panel yet.

Step Three: Powering-up

1. After the wiring to the panel is completed, re-check the polarity, power up the alarm panel.
2. Connect the siren internal battery, Red is the positive (+) terminal. The strobe may blink for while, it's OK. It's recommended to connect a new and fresh SLA battery.
3. Power-up the control panel.

Step Four: Testing

Close the SIR40S box. Generate alarm condition; note siren sounds and strobe lights on. Disconnect the Aux. Power, verify that siren and strobe keep alarming when power supplied by the internal battery.

Disconnect the power wires (simulate wire cut) verify alarm is on.

Open the SIR40S box for Tamper test. Consider battery service once 12-24 month. Close the cover and tight the box door screws.

SIR40S Specification	
Operating Temp: -10 to +70 C°	Strobe: Xenon or LED, 100K candles
Relative Humidity: 80%	Battery Charger: Maximum 350 mA
DC Power Input: 13 to 14V DC/0.4A	Battery: SLA Reachable 12V- 7AH
Standby Current: 0.02A + charge current	Box Type: Galvanized & Painted Metal
Alarm Current (Siren & Strobe): 2A	Siren Types: Four 15W horns, 6 ohms
Sound level at 1 meter: 119 db +/- 5%	Tamper: Remove & Open
Protection: Electronic fuse	Size: H=220, W=160, D=160 (mm)

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