PS-128-1, PS-128-3, PS-128-7 SIREN INSTALLATION

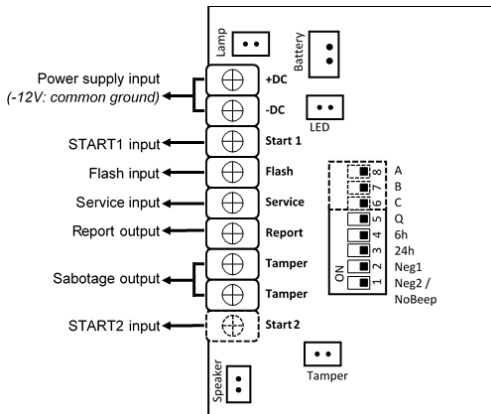|	PS-128-1	PS-128-3	PS-128-7
Tones / predefined tone pairs	1	3	7
Armed state feedback	no	yes*	no
Number of START inputs	1	1 or 2	2
Turning off error indication with sounds	yes	no	no

*in case of 1 START input

PS-128-1S, PS-128-3S, PS-128-7S

S version meaning: preinstalled sabotage panel.
Note: the panel can be bought separately and installed later as well.

1. Connect the wires in the alarm control panel. It is recommended to install a service wire and temporarily connect it to the ground (-DC) wire of the alarm control panel.

2. If no other sounder will be operated from the siren output of the alarm control panel close it with a 1kΩ resistor.

3. Mount the housing with the help of the drilling template which can be found in the box. Mount the tamper switch base onto the wall strongly.

4. Check the trigger signal polarity, the battery check frequency and other settings on the DIP switch. In case of PS-128-1 the sound of error indications can be turned off by turning the NoBeep switch to "ON" position. In such case if the siren detects an error it will only use the lamp and REPORT output to inform us; acoustic indication will only occur in case of alarm.

5. Use the A, B, C DIP switches to set the tone of your choice according to the chart enclosed. In case of PS-128-7 use the A, B, C switches; in case of PS-128-3 only use the B, C switches (the A switch has a different function, see later), in case of PS-128-1 there is no such option.

6. In case of PS-128-3 the armed state feedback function can be turned on with the A switch.

7. When the siren housing is properly installed mechanically, connect the wires to the terminals of the siren circuit board.

8. Connect the wires of the battery (red and black) to the proper connectors of the battery. When connecting the battery, the siren indicates that it has entered stepwise arming mode with 2 visual and a short, low acoustic signal. (The LEDs are not blinking yet.)

9. Upon finishing the wiring install the metal insert with a bolt then close the plastic housing and lock it with the included bolts.

10. Apply voltage to the alarm control panel. After the supply voltage has been applied the siren will enter armed mode which will be indicated by 3 acoustic and visual signals. If the service wire is connected to the ground the siren will immediately enter service mode.

11. At the end of the start-up procedure disconnect the service wire from ground and isolate it (or in case of long distance connect it to +DC). The siren will produce a short acoustic indication meaning the siren entered armed mode.

12. The siren is now operating and ready for use or can be tested.

TROUBLESHOOTING

Problem	Possible causes	Suggested correction
During start-up the siren fails to produce any acoustic and/or visual signal.	Improper battery connection. Faulty or low battery. Not proper installation order.	Check the connectors and polarity. Check load capability of the battery and recharge or replace it if necessary. Disconnect the power supply and the battery. After 10 sec repeat the start-up procedure in proper order.
During start-up only a quiet clicking sound can be heard.	The battery is not connected. Improper battery connection. Faulty or low battery.	Connect the battery. Check the connectors and polarity. Check load capability of the battery and recharge or replace it if necessary.
During start-up the siren immediately starts to alarm.	The siren gets trigger signal. Trigger signal polarity fault. The service input is not connected to the ground.	Stop the trigger signal on START input. Check trigger signal polarity setting on the DIP switch. Prior start-up link the service and ground (-DC) wires at the alarm control panel.
The siren does not start to alarm when it gets the trigger signal.	The siren is in service mode. Improper polarity of trigger signal. Faulty or low battery.	After start-up unlink the service and ground (-DC) wires at the alarm control panel. Check trigger signal polarity setting on the DIP switch. Check load capability of the battery and recharge or replace it if necessary.
The siren produces special acoustic and/or visual signal(s).	The siren detected an error.	The siren indicates the detected error(s) during self-test. Eliminate the cause of the indicated error.
The lamp randomly flashes. (0.5s)	Normal operation.	This is not an error. The siren is performing a self-test.

USEFUL INFORMATION

Flash input: Receiving a less than 3 sec. pulse the siren makes 3 clicking sounds; receiving a more than 3 sec. pulse the siren flashes the lamp silently until the end of pulse.

Service input: By connecting the service wire to ground the siren can be turned into service mode. Entering and exiting service mode is indicated by short signals. When the siren is in service mode it will not start to alarm even if it is dismounted, gets a trigger signal or the power supply is discontinued. After exiting service mode the siren performs a self-test and indicates any errors it may find.

Report output: The siren performs self-tests to check the lamp and speaker in every second and the battery at adjustable intervals. The lamp is checked by a short load. Should the siren detect any errors it indicates them and also activates REPORT output which can be monitored so the alarm control panel can send error signal to the monitoring station. Operating period of "REPORT" signal at REPORT output is approximately 3 sec. In case of a persistent failure the frequency of error indication and "REPORT" signal is equivalent with the frequency of battery checks. It can be set either to 6 or 24 hours. In case of setting both DIP switches to "OFF" the siren does not indicate the detected error repeatedly and neither has scheduled battery checks, however after an alarm or exiting service mode the siren performs a self-check and error indication, therefore the detected error can be easily 'read' by shortly (1 sec.) connecting the service wire to ground.

Error indications: Lamp error is indicated by a typical acoustic signal; speaker error is indicated by a typical visual signal; battery error is indicated by a combination of acoustic and visual signals.

Armed state feedback *(in case of PS-128-3)*: Turning the A switch to "ON" the siren is capable of detecting and indicating the armed state of the alarm control panel if it is connected to START2 input of the siren. In this case START2 input is only available for detecting the armed state and therefore the siren can only receive trigger signal at START1 input.

START1 and START2 inputs *(in case of PS-128-3 and PS-128-7)*: Two trigger signal outputs of the alarm control panel can be connected to the siren. Since the inputs have different tones it is possible to locate the place of alarm. In case of PS-128-3 turning the A switch to "ON" START2 input has a different function! In this case this input detects the armed state of the alarm control panel therefore the siren can handle only one START input to receive trigger signals.

Custom tone *(in case of PS-128-3 and PS-128-7)*: The tone can be set manually when the A, B, C DIP switches turned to "OFF". In such case during trigger signal on START1 or START2 inputs touching ground with the "SERVICE" wire for a short time (max. 1 sec.) the tone of the selected input can be chosen. In case of PS-128-3 if the A switch is at "ON" position (armed state feedback mode) it is possible to set the tone of START1 input only.

Wiring: Connecting wires to the siren should be performed always in a non-live state! In case of the wires are already under voltage the +DC should be connected lastly taking special care to avoid accidental short circuits! In order to avoid an unwanted alarm the "SERVICE" wire should be connected to ground in the alarm control panel during installation.

Other notes: The blue terminal connectors can be dismounted to make installation easier.

			ON	OFF
PS-128-7, PS-128-3	8	A*		
	7	B		
	6	C		
PS-128-1	5	Q*	disable	enable
	4	6h	battery check in every 6 hours	no scheduled battery checks
	3	24h	battery check in every 24 hours	
	2	Neg1	START1 negative	START1 positive
	1	Neg2* / NoBeep*	START2 negative / error indication with sounds off	START2 positive / error indication with sounds on

*A: in case of PS-128-3 armed state feedback function
*Q: the siren starts to alarm when power supply is disconnected
*Neg2: PS-128-7, PS-128-3
*NoBeep: PS-128-1

PS-128-7						PS-128-3					
TONE	A	B	C	START1	START2	TONE	A	B	C	START1	START2
0				*Custom tone.*		0				*Custom tone.*	
1				fast up-down	intermittent buzzer	1				fast up-down	intermittent buzzer
2				intermittent buzzer	low-high	2				intermittent buzzer	low-high
3				low-high	chirping	3				low-high	chirping
4				chirping	slow up-down	0				*Custom tone.*	
5				slow up-down	slow down – fast up	1				fast up-down	Input of armed state feedback.
6				slow down – fast up	stepwise up-down	2				intermittent buzzer	
7				stepwise up-down	fast up-down	3				low-high	