



EN 54-3

# PS-128F outdoor fire siren



### Specifications

Power supply.....	20 - 28V
Current load during standby.....	10mA
Current load during charge.....	max. 100mA
Current load during alarm.....	supplied from battery
Compatible battery (not included).....	12V 4Ah or 7Ah
Minimum (loaded) battery voltage.....	10.8V
Sound sample (vary).....	900 - 2400Hz
Sound pressure.....	118 dB
Wire cross-section.....	from 0,22 to 1,5 mm <sup>2</sup>
Make.....	B type (outdoor)
Rating.....	IP34
Weight.....	3 kg
Dimensions.....	295 x 200 x 100 mm
Operating temperature.....	from -40 to +85 °C
Maximum humidity.....	95% RH
Self-test.....	battery, lamp, speaker

### Overview

The PS-128F fire siren is designed to be used in as many applications as possible. For example, it can be connected in a fire alarm loop with four-wire connection, three-wire connection or with two-wire connection in 'alarm if power supply is discontinued' mode. In the case of a four-wire connection the siren is able to report any fault to the control panel by interrupting the closed circuit in the event of a fault, so a siren circuit fault is indicated in the control panel. The siren beeps and illuminates until it receives signal from the control panel.

### Installation

The package contains a paper template. With the help of the template you can easily mark the place of the screw holes taking into consideration the wires coming from the wall. After marking, drill the holes. Remove the cover and mount the siren onto the wall with four screws.

### Jumpers

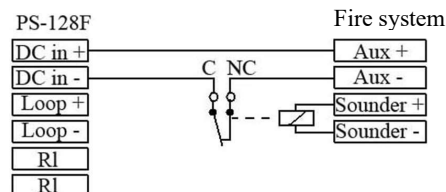
**ATTENTION!** Settings of jumpers must be performed always in a non-live state!

- **Tamper:** A tamper switch can be connected to the place of the jumper which makes the siren protected for sabotage. Without tamper switch the jumper must be left on.
- **Relay:** By placing it on, the closing interrupt relay can be bypassed. (Disable error reporting.)
- **1:** By placing it, the 'alarm if power supply is discontinued' mode can be disabled and by removing it, it can be enabled.
- **2, 3:** Not used. (Reserved for development.)

### Connection types

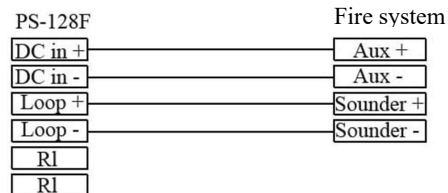
#### Type 1: two-wire, non-supervised starting mode (alarm when power supply is discontinued)

The 'alarm if power supply is discontinued' mode must be enabled by removing jumper '1'. In this case connecting two wires is sufficient. Connect the DC + (+24V) and DC - (GND) points of the siren to the power supply with an interrupting relay.



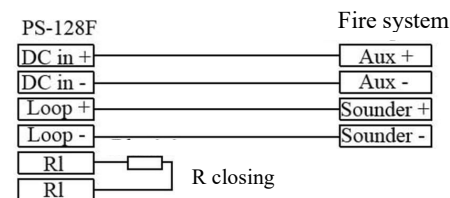
#### Type 2: four-wire, non-supervised starting mode

Its advantage over 'type 1' is that it does not start to alarm in the event of a power failure. This is advantageous if the siren is not the last piece of the loop. The disadvantage is that the fire control panel does not detect the reporting of faults.



#### Type 3: four-wire, supervised starting mode

In the event of a fault, siren circuit fault is indicated on the fire control panel as the siren is briefly interrupting the closing of circuit which is detected by the control panel via the sounder loop.



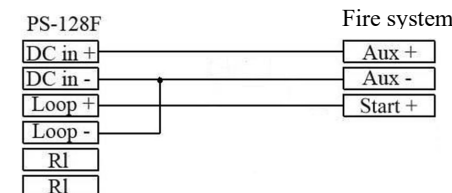
#### ATTENTION!

The third version (connection type 3) may not work properly with all types of fire control panels. Before installation make sure that the system is compatible with PS-128F. Please contact the manufacturer or distributor of the fire alarm system, check the given documentation.

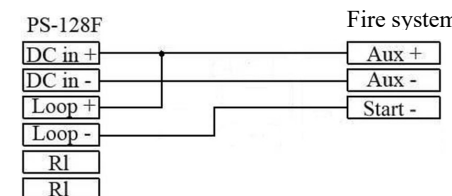
#### Type 4: three-wire starting mode

Two wires are required to power and one wire to trigger the siren. Depending on the polarity of the start signal, it can be connected in two ways.

If the polarity of the start signal is positive (i.e. a positive voltage is emitted by the control panel in relation to 'DC in' during alarm), it must be connected according to the following chart:



If the polarity of the start signal is negative (i.e. the control panel outputs close to 0V at the start output during alarm), it must be connected according to the following chart:

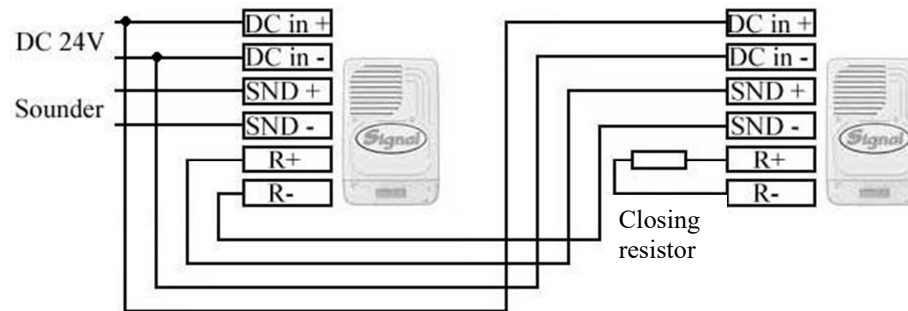


### Start up, Finish installation

When you are sure that all the circuit wires connected correctly, connect the black wire to the negative terminal of the battery and the red wire to the positive terminal. Then apply power (24V) and turn on the fire control panel. If the battery is new or discharged, it may indicate a fault until the charge reaches the correct level. If the fault persists after two days, inspect the siren and contact your dealer if necessary. If everything works correctly, screw on the cover of the device with two screws.

### How to loop the siren circuit

If a PS-128F is not the last item of the siren circuit, the outgoing wire should be connected to the R+ and R- terminals with correct polarity, as shown below:



Thank you for choosing PS-128F outdoor fire siren! We wish you good luck with the installation!