

# JA-111A RB BUS external siren

The JA-111A RB is a component of the **JABLOTRON 100** system. It is used for system alarm indication outside a building and as a pre-sensing tamper detector. It can also be used for supplementary acoustic signalling. The siren is equipped with a backup battery which powers the siren during tamper alarm reporting when the connection to the digital bus is severed. The JA-111A RB is completed by assembling two parts, the with the **JA-111A-BASE-RB** base PCB and one of a few optional covers in the **JA-1X1A-C-xx** series. The covers are supplied as a colour combination of cover and flasher. The siren should be installed by a trained technician with a valid certificate issued by authorized distributor.

For combinations of colour and cover material, see the following table:

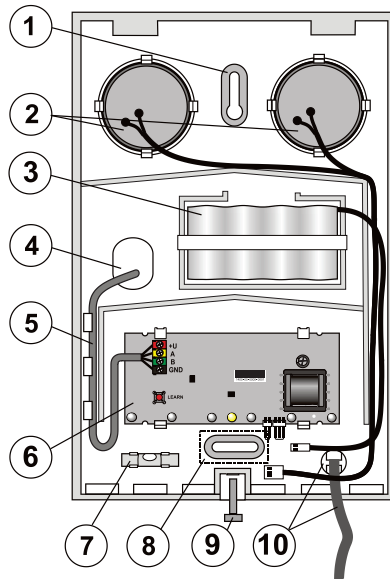
Cover type	Colour and cover material	Strobe colour
JA-1X1A-C-GR	Grey plastic	Red
JA-1X1A-C-ST	Stainless steel sheet	
JA-1X1A-C-WH	White plastic	
JA-1X1A-C-GR-B	Grey plastic	Blue
JA-1X1A-C-ST-B	Stainless steel sheet	
JA-1X1A-C-WH-B	White plastic	

## Installation

The siren should be installed on a vertical wall, with the flasher facing downwards. Avoid installing the siren near the gutters and on other places where there is a danger of ice accumulation.

Figure:

- 1 – mounting hole;
- 2 – two piezzo sirens;
- 3 – NiCd battery with reusable battery strap;
- 4 – hole for cable;
- 5 – bus-cable; 6 – PCB;
- 7 – spirit level;
- 8 – mounting hole with tamper detection;
- 9 – front cover screw;
- 10 – string with clip connecting the front cover for easy installation



1. Open the external siren cover by releasing the screw (9).
2. Push the bus cable (5) through the hole (4) in the bottom part and secure it using the plastic tabs.
3. Attach the siren to a suitable place using 2 screws through the holes (1) and (8). The spirit level can be used for easy installation (7).



**When connecting the siren to the system bus, always switch the power off.**

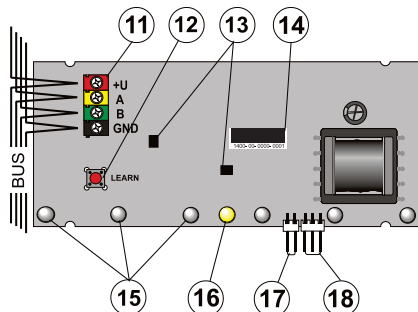


Figure: 11 – bus terminals; 12 – LEARN (enrollment) button; 13 – tamper sensors; 14 – production code; 15 – high-intensity red LED flashers; 16 – yellow fault indicator; 17 – backup battery connection; 18 – piezo siren connection (attention: high voltage)

4. Connect the bus cable to the terminals (11).
5. Connect the backup battery to the connector (17).
6. Proceed according to the control panel installation manual. Basic procedure:
  - a. When the siren is switched on, the yellow LED (16) indicates that the siren has not been enrolled into the system.

- b. Go to the **F-Link** software, select the required position in the **Devices** tab and launch the enrollment mode by clicking on the **Enroll** option.
- c. Press the enrollment button (12) – the siren is thus enrolled and the yellow LED indicator goes off.
7. Put back the siren cover and attach it using the screw (9).
8. The siren can be tested by F-Link software by clicking the Test button in the internal settings option. After clicking the button the siren sounds for three minutes and after that flashes for one minute.

## Internal settings of the siren

The siren properties can be set in the **Devices** window of the F-link program. When at the siren position, use the **Internal settings** option to open a dialog window where you can set: (default settings are marked \*):

**Sections:** to set for which sections the siren should indicate an alarm, as well as setting chirps. The default setting is indication for all sections.

**Reaction:** defines whether the siren should indicate **EW\*** (external warning) or **IW** (internal warning); Alarm indication can also be disabled completely (other functions remain enabled).

**LED indication: Red\* / Blue.** According to the siren cover you can choose the colour of the LED indicators.

**Siren chirps: interrupted\*, uninterrupted.**

**Alarm indication length: 1, 2, 3\*, 4, 5 minutes.**

**Chirps during section control YES / NO\*** if enabled, the siren chirps once upon setting and twice upon unsetting and three times upon unsetting after an alarm. The signalling only works for the preset sections.

**Siren flashing options: During alarms % (flashes) 30 minutes after an alarm.** Extended flashing can be terminated by new system setting or cancellation of alarm indication in the system (with a keypad).

**Flashes every 60 seconds: YES / NO\*** optional indication of siren functioning.

## PG output activity indication

The siren can indicate PG output activity with its chirps.

**Chirp 1** – slow chirping - 1 per second (for the whole period when the PG is active)

**Chirp 2** – rapid chirping - 2 per second (for the whole period when the PG is active)

**Chirp 3** - 1 chirp when the PG is activated, 2 chirps when the PG is deactivated

**Chirp 4** – a long 20 sec chirp when the PG is activated

## Sound priorities

The siren sound has the highest priority, the control chirps have a lower priority and the PG output activity indication has the lowest priority (PG1 has a higher priority than PG2 etc). The chirp with a higher priority always terminates the chirp with a lower priority.

## Loss of communication with the control panel

If the power supply wire is severed, the siren keeps sounding and flashing for 3 minutes (this function does not work in service mode). If the system power supply is disconnected due to a discharged control panel battery (long lasting power failure) then the siren does not sound and flash.

## Backup battery replacement

The system reports a low battery automatically. The control panel must be in service mode before you start changing the battery otherwise a tamper alarm will be triggered. Use a BAT-4V8 battery only.

## Technical specifications

Power	from control panel digital bus 12 V (9...15 V)
Current consumption in standby mode	5 mA
Current consumption for cable choice	50 mA
Backup battery	NiCd pack 4.8 V / 1800 mAh lifetime approx. 3 years
- minimum loaded voltage	4.0 V
- maximum unloaded voltage	6.0 V
	reusable battery strap
Piezoelectric siren	110 dB/m (with fully charged battery)
Dimensions	200 x 300 x 70 mm
Classification	Security grade 2
according to environment class IV	EN 50131-1, EN 50131-4
Security grade	general outdoor -25 °C to +60 °C
Also complies with	IP44 EN 50130-4, EN 55022, EN 60950-1, EN 50581



JABLOTRON ALARMS a.s. hereby declares that the JA-111A RB is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at [www.jablotron.com](http://www.jablotron.com) - Section Downloads.



Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit [www.jablotron.com](http://www.jablotron.com).