JA-159J Wireless doorbell button

*The product is a **JABLOTRON** system component. The button can be used as a wireless doorbell, to trigger a hold-up alarm or to control appliances. It communicates via the JABLOTRON wireless protocol and is powered by two batteries. It occupies one position in the system. It must be installed by a trained technician with a valid JABLOTRON certificate.*

The product is compatible with the JA-101K, JA-102K, JA-103K, JA-106K, JA-107K and JA-152KR control panels.

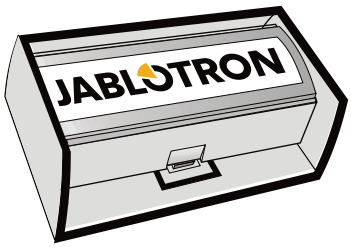


Fig. 1

Installation

Always install the button with the protective roof, which serves as its base. The roof allows several doorbell buttons to be installed one above the other if needed. Never place the button on metal objects, as they may reduce its operating range. The JA-11xR radio module must be installed in the control panel for the button to work.

1. Mount the protective roof in the required place with two screws. The screws must have countersunk heads and be properly tightened so that the button can be easily fitted and correctly locked (also mind any surface unevenness).
2. Remove the button label cover by gently prying it off with a wider flat screwdriver, see Fig. 2a.
3. Insert the name label (18 mm x 65 mm) into the cover. The label can be printed with a Brother PT-xxx printer and the F-Link software (same printing principle as for JA-192E segment labels). Put the cover back on the button.
4. Fit the button to the top wall of the roof as shown by arrow *1* in Fig. 2b, then lock it by sliding it down into the grooves as shown by arrow *2* in Fig. 2b.
   To remove the button from the roof again, release it by pressing the latch with a screwdriver, see Fig. 2c.
5. Then follow the control panel installation manual. Basic procedure:
   a) In the ***F-Link*** software, select the required position in the ***Devices*** tab and click *Enrol* to start the enrolment mode.
   b) Press and hold the button for more than 6 seconds. An enrolment signal is transmitted and the button is enrolled to the selected position.
6. Configure the button according to the section *Setting the properties.*

Notes:

- *The button can also be enrolled by entering its serial number in F-Link. The number is on a label on the rear of the product. Enter all digits (example: 1400-00-0000-0001).*
- *To remove the product from the system, delete it from its position in the control panel.*

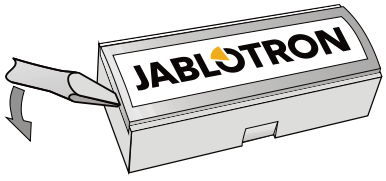


Fig. 2a

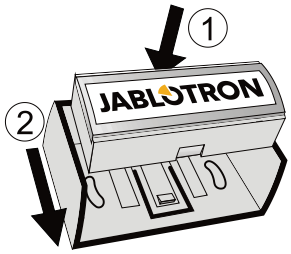


Fig. 2b

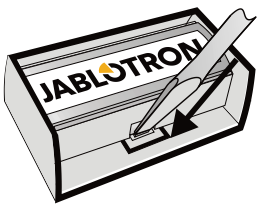


Fig. 2c

Using the button as a doorbell

The first condition for using the product as a doorbell button is that an indoor siren is installed in the system. The second condition is that one free PG output of the control panel is assigned to the button activation (on the doorbell button position in F-Link). Then, in the siren's internal settings, on the "Signalling PG" tab, set the acoustic signalling type or melody for this PG. The button activation can also have no reaction in the system, i.e. *None*.

Operation with multipurpose relays (MPR)

The button can also be enrolled to an AC-16x series MPR to control the relay in the selected mode. Each activation can be enrolled to an MPR with a selected mode. One button can be enrolled to several MPRs with different functions. If the button is enrolled to both the control panel and an MPR within RF range, the set reaction occurs on both devices. To enrol the button, follow the installation manual of the MPR.

Note:

- *When the button is held down, it sends a repeated pulse every 1 s. This is useful for controlling devices where different output activation times are needed.*

Setting the properties

Settings are made in the ***F-Link*** software – ***Devices*** tab. On the position of the button, click ***Internal settings***. A dialog is displayed in which the following parameters can be set:

Taking over a user's access: When a user is selected, the button takes over the rights of that user, i.e. it respects the access to the controlled section and, if set, also the time-limited access to the section. Factory default: disabled.

Taking over a user's identity: The selected user will be shown as the source in the event log. Factory default: disabled.

Battery replacement in the button

The system automatically reports low batteries. It is not necessary to switch the system to Service mode before replacing the batteries (the button has no tamper contact). To open the button, remove the label cover (Fig. 2a) and the screw under the label. Before inserting the batteries, wait at least 10 seconds or press the button repeatedly (to discharge residual current). For correct operation, we recommend batteries supplied by JABLOTRON distributors or other quality branded lithium batteries.

Always replace both batteries.

Do not throw used batteries into the waste; hand them over to a collecting point.

Label printing

To print the doorbell name label, use the same printers and principles as for JABLOTRON 100 keypad segment labels. The only difference is the wider 18 mm tape PT-TAPE18-BW. To print, use the F-Link function in the internal settings – the *"Print labels" button.*

Technical specifications

Power supply	*2 x lithium battery, type CR 2032 (3.0 V/0.2 Ah) batteries are factory-installed*
Typical lifetime of batteries	*approx. 5 years (outdoors, 3 activations per day)*
Quiescent current consumption	*2.6 µA*
Maximum current consumption	*3 mA*
Communication band	*868.1 MHz, JABLOTRON protocol*
Communication range	*approx. 300 m (open area)*
Maximum radio-frequency power (ERP)	*<25 mW*
Operating temperature range	*-25 °C to +60 °C*
Ingress protection rating	*IP 65*
Average operating humidity	*75 % RH, non-condensation*
Dimensions	*70 x 30 x 20 mm*
Weight	*37 g*
Dimensions (including the roof)	*77 x 47 x 28 mm*
Weight (including the roof)	*60 g*
Can be operated according to	*ERC REC 70-03*
Complies with	*ETSI EN 300 220-2, EN 55032, EN 50130-4, EN IEC 62368-1, EN IEC 63000, EN 62311, EN 60529*
Recommended screw	*2x ø 3.5 x 40 mm (countersunk head)*

JABLOTRON a.s. hereby declares that the JA-159J is designed and manufactured in compliance with the EU harmonisation legislation: Directives No.: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU, when used as intended. The original of the declaration of conformity is at www.jablotron.com in the Downloads section.

Note: Although the product contains no harmful materials, do not throw it into the waste; take it to an electronic waste collecting point. More information at www.jablotron.com in the Downloads section.

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