

JA-122E-NFC Bus outdoor RFID reader 13,56 MHz

The product is a component of the JABLOTRON system. The reader is designed to scan contactless authorisation elements, and it may be used for the activation of a PG output. The reader has a reading part and optical status indication. The device should be installed by a trained technician with a valid Jablotron certificate issued by an authorised distributor. This product is compatible with JA-103K and JA-107K control panels.

Installation



When connecting the module to the bus, always switch the power off.

1. Remove the locking screw (6) and open the reader cover.
 2. Install the plastic base to a chosen place on a wall, so that the tamper contact (5) can be sufficiently compressed when the installation is complete.
 3. Pull the reader cable through the hole in the plastic base.
 4. Connect the bus cable into the terminal blocks according to the colours and markings – red terminal +U, yellow A, green B, black GND. For connection outside the armed area, we recommend using the JA-110T isolator.
 5. Follow the instructions stated in the control panel installation manual.
- Basic procedure:
- a. Once powered on, the yellow LED (3) flashes to indicate that the reader is not enrolled to the system.
 - b. Open the **F-Link** software, select an unused position in the **Devices** tab and click on the **Enrol** button to enter the Enrolment mode.
 - c. Press the tamper, this action enrolls the reader, and the yellow LED turns off.
6. Close the product cover and secure it with a locking screw (6).

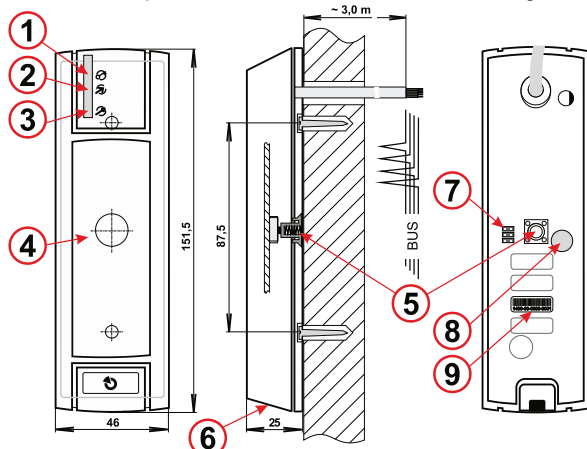
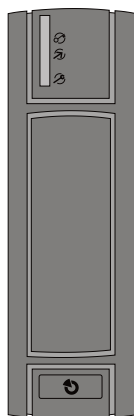


Figure 1: Popis vnějších a vnitřních částí výrobku

Description of external and internal parts of the product

- 1 – red LED – indicates an armed section; 2 – green LED – indicates a disarmed section; 3 – yellow LED – indicates fault/service/not-enrolled to the system; 4 – reading area; 5 – tamper contact; 6 – locking screw; 7 – programmable pins; 8 – piezo; 9 – serial number

Notice: Programmable pins (7) are for production purposes only.

Setting the properties

To set the properties, use the **F-Link** program, select the **Devices** tab. At the product/reader position, click the **Enter** prompt in the **Internal settings** column.

The signalization shows the status of a function assigned to the segment.

- **Red LED** indicates an armed/turned on PG.
- **Green LED** indicates a disarmed section/turned off PG.
- **Yellow LED** indicates a fault by permanent light.

Behaviour of optical indication may be set in the F-Link software by selecting from the following options.

The asterisk symbol * signifies the factory default setting.

LED function

None / Indicates section* / Indicates PG / PG indicates inversely

*Možnosti **Indikuje PG** a **PG indikuje inverzně** se zobrazí až po vybrání konkrétního PG v sekci Akce autorizaci

Acoustic indication of selected sections

Alarm: *On / Off: Signalizes ongoing alarm in an assigned section.

Entrance delay: *On / Off: Signalizes entry delay in a section to which it is assigned.

Exit delay: *On / Off: Signalizes exit delay in a section to which it is assigned.

Exit delay when partially set: On / *Off

Segment status change: Reader signalized acoustic section in which it is assigned.

Mute: On / *Off: If **ON** is selected, reader will not signalize exit and alarm.

Properties and indication

Indicates permanently – LED 1 or LED 2 lights up permanently/signals the status of the PG / section. The reader displays the status permanently. In case of a power failure, it behaves according to the By status change option.

After valid authorisation – applying a card/chip, the signalling is activated and the LED displays the status of the PG/section (selected PG in the Authorisation action setting, if selected) for 8 seconds.

After valid authorisation in acc. with EN50131-1 – by reading a card of a user that is defined within the system, the current status of a PG/section is displayed for 4 seconds (selected PG in the Authorisation action setting, if selected).

Authorised action

Authorisation triggers an entrance delay: On / Off*: If the section, to which the reader is assigned, is in an armed state, authorisation by means of reading a card induces an entry delay. Simultaneously it activates a PG.

The reader can be used to control PGs that have the Impulse or Change function set. These functions can be set in the internal settings of the F-link.

Technical specifications

Power	from the control panel bus, 12 V DC (8–15 V)
Quiescent current consumption	12 mA
Maximal current consumption	60 mA
Type of control device	A
RFID frequency	13.56 MHz
Maximum RFID magnetic field strength	10.37 dBµA/m (3 m)
Compatible RFID cards	NFC, Mifare® Classic, Mifare® DESFire® 4, 7 Byte UID
Dimensions	46 x 152 x 25 mm
Weight	193 g
Cable length	3.0 m
Operating temperature range	-25 °C to +60 °C
Average operating humidity	75 % RH, non-condensation
Environment	IV. outdoor general
Classification	grade 2 according to EN 50131-1, EN 50131-3
Additionally in compliance with	ETSI EN 300 330, EN 50130-4, EN 55032, EN IEC 62368-1, EN IEC 63000
Recommended screw	3x  ø 3.5 x 40 mm (plochá hlava)
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JABLOTRON a.s. hereby declares that product JA-122E-NFC is in compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com – Section Downloads.

Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

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