JA-120E-WH, JA-120E-BK
Bus outdoor access module with RFID and NFC reader

*This product is a component of the **JABLOTRON** system. The outdoor card reader contains 2 reading zones and allows the simultaneous combination of 125 kHz (RFID) and 13.56 MHz (MIFARE® Classic) frequencies. Card reader can be used to activate PG outputs for example to control access (door lock). It has only reading zone and an optical status indication. The product is intended for installation by a trained technician with a valid Jablotron certificate.* ***This product is compatible with JA-100K, JA-101K, JA-103K, JA-106K and JA-107K control panels.***

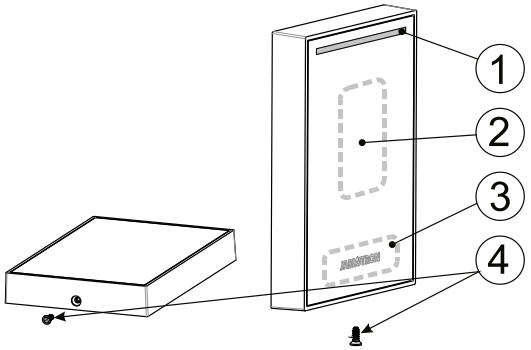


*Fig. 1: **1** – LED indicator, **2** –125 kHz reading zone, **3** –13,56 MHz reading zone, **4** – locking screw*

Installation

1. Install the mounting pad with 2 screws in the prepared place.
2. Pull the cable from reader through the hole in the mounting pad.
3. Align the reader on the top edge of the mounting pad (Figure 2) and click it in.
4. Then secure the card reader with the locking screw (4)
5. Connect the bus cable to the bus terminals via a JA-110Z-x terminal module and a JA-19xPL installation box

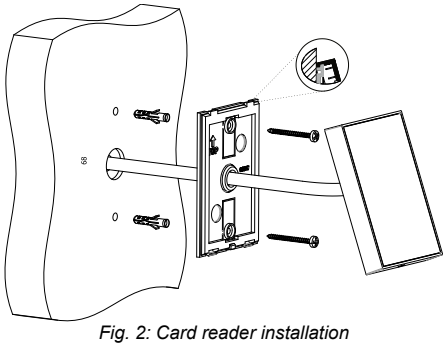


Fig. 2: Card reader installation

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

6. Proceed according to the control panel installation manual.
   Basic procedure:
   a. When the reader is switched on, the yellow LED (1) indicates that the reader 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 enrolment mode by clicking on the Enrol option.
   c. Press the enrolment button

Notes:

- *Enrolling can also be done by entering the serial number in F-Link. The number is stuck in the back of the PCB. All numbers are entered (serial number pattern: 1400-00-0000-0001).*
- *To remove the product from the system, delete it from the appropriate position in the control panel.*
- *If the reader is located outside the secure area, use the JA-110T bus isolator.*
- *To mount the reader on the KU68 installation box, use the WRE-KU68 WH (BK) adapter.*
- *To mount the keypad with the cable duct, use the WRE-SC-WH (BK) adapter.*

Setting the properties

Settings are located in the ***Devices*** tab – ***Internal settings Choice of action:***

Section indication: indicate status of section

PG indication: indicate status of PG output

PG indication inversely: indicate status of PG output inversely

System status indication: indicate status of system (alarms, faults) according to the settings in the section

Action by the authorisation:

Entrance delay: valid authorisation will launch entrance delay countdown in the section to which the card reader is enrolled if the section is set.

PG control: specifies which PG outputs will be controlled after a valid authorisation. PG selected in this way must have "Impulse" or "Change" parameter set (see PG ***Outputs/Functions*** settings).

Section control: Valid authorisation changes status of the set section.

Note: If in the section is signals the cause of prevents setting (active detector, fault), the section will not set.

Delayed panic: allows you to set the delay time of panic alarm after it has been activated on the card reader. A valid authorisation at the time of postponement cancels the activation of the panic alarm.

Acoustic signalling:

Alarm: acoustic indication is activated for alarms

Entrance delay: acoustic indication is activated for entrance delay

Exit delay: acoustic indication is activated for exit delay when the section is fully set.

Status change: acoustic indication is activated for status change like *set/unset, on/off* according to the *„Optical indication"* function parameter

Card reader confirmation: acoustic indication is activated for card read confirmation

Optical indication settings:

Permanent indication: card reader is permanently indicating status

Change of status: optical indication is activated by every change in the system on the card reader. Optical indication is visible for 8 sec.

After a valid authorisation: optical indication by the reader after a valid authorisation for 8 sec and can perform an action which is set in „Authorisation action" parameter

Indication in sections:

Selection of sections for which the card reader will indicated according to the setting "Acoustic signalling"

Setting of backlight and volume intensity:

Allow to set intensity of the optical and acoustical indication.

Settings in control panels like JA-103K and JA-107K is split to DAY/NIGHT mode.

Card reader:

Allows to set the card reader option according to the technology used - RFID / NFC (MIFARE®). In case of using combined cards, the preferred technology can be set.

Technical specifications

Type of control device	*A*
Power	*from control panel digital bus 12 V DC (8…15 V)*
Quiescent current consumption	*50 mA*
Maximal current consumption	*110 mA*
IP cover conformance according to EN 60529	*IP55*
Mechanical strength according to EN 50102	*IK08*
RFID frequency	*125 kHz*
Maximum RFID magnetic field strength	*-22.9 dBμA/m*
MIFARE® frequency	*13.56 MHz*
Maximum MIFARE® magnetic field strength	*-2.7 dBμA/m*
RFID cards	*JABLOTRON 100*
MIFARE® cards	*MIFARE® Classic*
Dimensions	*96 x 67 x 19 mm*
Weight	*140 g*
Cable length	*2.0 m +/- 5 %*
Operating temperature range	*-25 °C to +60 °C*
Average operational humidity	*75 % RH, non-condensation*
Environment	*outdoor general*
Classification	*security grade 2 / environmental class IV*
Certification body	*Trezor Test s.r.o. (nr. 3025)*
In compliance with	*ETSI EN 301 489-1, ETSI EN 300 330, EN 50131-3, EN 50130-4, EN 55032, EN IEC 62368-1, EN IEC 63000*
Can be operated according to	*ERC REC 70-03*
Recommended screw	*2x ø 3.5 (half-round head)*

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JABLOTRON a.s. hereby declares that the JA-120E-WH and JA-120E-BK is in a compliance with the relevant European Union harmonisation legislation: Directives No: 2014/30/EU, 2014/35/EU, 2014/53/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com – the Downloads Section.

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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