

The device JB-110N is a component of the **JABLOTRON** system. It provides an output power relay switch. It can be used for switching on/off the lights, ventilators, etc. The relay can be controlled with a programmable control panel (PG) output or according to the status of a section (armed = relay on) or when there is an alarm in a chosen section (alarm = relay on). The detector should be installed by a trained technician with a valid certificate issued by an authorised distributor.

Installation



When connecting the module to the system digital bus, always switch the power off. If the module is installed outside the protected area, the JA-110T bus insulator should be used for the external section of the wiring.

The module must be placed in a JA-19xPL (Jablotron) mounting box or in the control panel cabinet to comply with protection class II, where it must always be mounted in the lower part of the mounting box to the spacer posts using the supplied mounting material. In the event of non-compliance with the above installation, the manufacturer accepts no liability for any damage or personal injury. To meet security level 2, the module must be installed in the JA-194PL or JA-195PL box together with the JA-111H TRB module.

1. Use the DIP switch (3) to set the required number of the PG output or the number of the section to which the relay should react - see the setting tables.
2. Connect bus wires to the bus terminals (1).
3. Switch on the system and test its functioning.
4. Check the supply voltage at the bus terminals (red, black) when the relay is activated. The voltage must be at least 9 V.
5. Connect the controlled device to the relay output terminals (5).

Figure 1 illustrates three examples of the proposed 8x8 bit-plane decomposition. Each example shows a sequence of bit-planes (ON, PG, SC, AL) and their corresponding 8x8 grids of bit values (0s and 1s).

Example 1: ON, PG 1, PG 2.

Example 2: ON, SC 1, SC 2, SC 3, SC 4.

Example 3: ON, AL 1, AL 2, AL 3, AL 4.

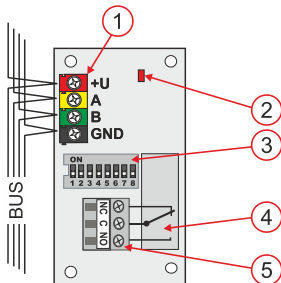


Figure 1: Product description

Table 1: The relay reacts to the PG output state

Table 2: The relay reacts to arming the chosen section

Table 3: The relay reacts to an alarm in the chosen section

Note: For a complete table of switches for the JA-100+ system, see the QR code below.

Enrolment to the system and settings

According to the type of control panel use recommended software or application – see control panel manual.

Technical specifications

Power.....	from control panel digital bus 12 V DC (9...15 V)	Classification	Security grade 2 / Environmental class II
Quiescent current consumption (relay on / off)	5 mA / 45 mA		(according to EN 50131-1 and T 031)
Maximum current consumption.....	45 mA		Only when the module is placed in the JA-194PL box or JA-195PL using the JA-111H TRB module!
Relay contact rating		Environment	indoor general
Maximum voltage.....	250 V AC / DC	Operating temperature range	-10 °C to 40 °C
Resistive load (cos φ = 1)	16 A	Average operational humidity	75% RH, non-condensation
Inductive (capacitive) load (cos φ = 0.4)	8 A	Certification body.....	Trezor Test s.r.o. (no. 3025), Kiwa Nederland b. v.
Minimum acceptable relay output through-wattage (DC)	0.5 W		
Protection.....	Class II	Also complies with... EN 50131-1, -3, EN 50130-4, T 031, EN 55032,	EN IEC 62368-1, EN IEC 63000
Dimensions.....	78 x 40 x 20 mm		
Weight.....	34 g		



JABLOTRON a.s. hereby declares that the product JB-110N is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/30/EU, 2014/35/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.

For an electronic version of this document (available in other languages) or a version for installation in the JA-100+, scan the attached QR code (<https://manuals.jabltron.com/b-110n>).



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