Automated lighting

Navigation

The JABLOTRON 100+ security system allows motion detectors and PG to automatically switch on the lighting for a precisely defined time. This solution is suitable in locations where higher user comfort or energy savings are required. For motion detection bus PIR detectors are prefered. For wireless PIR detectors, longer light-up times should be set to eliminate detector sleep modes. JA-110N or JA-150N power relays can be used as output modules.

In the example below, a combination of the JA-110P bus PIR detector and the JA-150N wireless module is used.

Tip: for some rooms, you can use the JA-115P ceiling bus detector, which is optimized for this function.
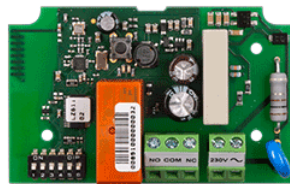
REQUIRED EQUIPMENT

| JA-10x
control panel | JA-11xR
radio module | F-Link 2.7.0
and higher | JA-110P
PIR detector |

JA-150N
wireless power
module

CONNECTION OF PERIPHERALS

- This procedure assumes that you are familiar with the manuals of the products used.
- Install the JA-110P motion detector in a suitable location in the room and learn it into the system using the F-Link software, see the detector installation manual.
- • Install the JA-150N power module and connect it as described below.
  - Connect the **L** and **N** wires to the mains supply terminal
  - Connect the **230V** and **COM** terminals
  - The **NO** terminal will switch the phase when PG is activated
  - Connect output **L** and **N** to the lighting terminal block, see Figure 1. The **maximum switching load of the relay is 16A !**
  - o Set the PG value to be responded to on the configuration switch. The combinations can be found in Figure 2.

⚠ Only qualified personnel may connect network devices.
The product is used for functional single-pole switching and does not provide safe disconnection.
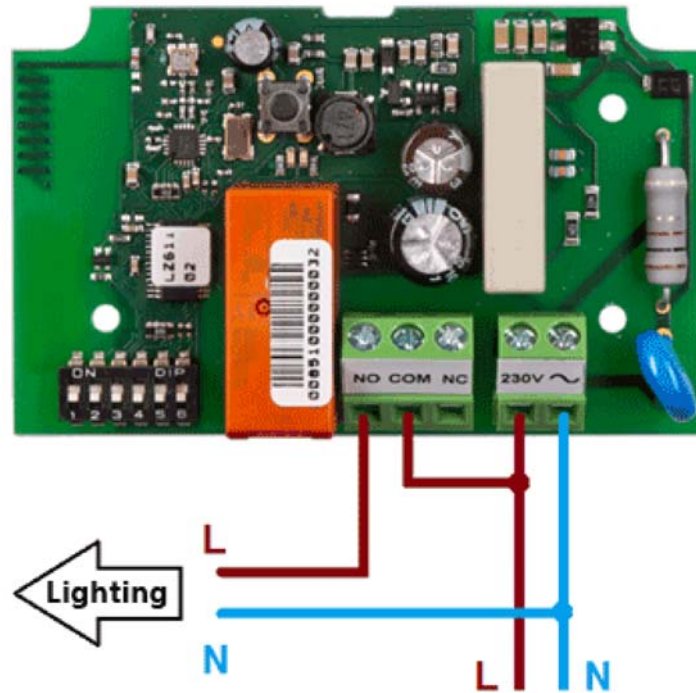

Figure 1 – Wiring diagram for the JA-150N power relay

Figure 2 – Table of switch combinations

SETTING UP AND PROGRAMMING THE SYSTEM

1. Basic installation

a. In F-Link, under the Settings/Perifery tab, select the JA-1xxP detector and choose which PG to switch (e.g. PG1). The JA-150N module will respond to this PG.

| 6 | PIR corridor | JA-110P | 1: House | Instant zone alarm | ☑ | 1 | Enter |

b. Next, on the Settings/PG outputs tab, select how long the PG1 output should be switched on (for how long the light should be on). It is recommended to set the switching off in minutes so it is longer than the detector's sleep mode. Set the Function to Impulse.

Initial setup	Section	Devices	Users	**PG outputs**	Users reports	Parameters	Diagnostics	Calendars	Communication
Position	Name	Logic	Function		Time	Activation	Blocking of PG outputs		Reports
1	PG output 1	NO	Impulse		00:03:00	Activation	By Other PG		Enter

2. Advanced installation

In addition, the JA-103 and JA-107 control panels can be conditioned to turn on the light in night mode so that the light does not turn on during the day.

a. In F-Link, under the Settings/Perifery tab, select the JA-1xxP detector and choose which PG to switch (e.g. PG1).

6	PIR corridor	JA-110P	1: House	Instant zone alarm	☑	1	Enter

b. Next, on the Settings/PG outputs tab, select for how long the PG1 output should be switched on (for how long the light should be on). It is recommended to set the switching off in minutes so it is longer than the detector's sleep mode. Set the Function to Impulse. At the same time, set the "PG blocking", e.g. with PG2, by deactivation.

Initial setup	Section	Devices	Users	PG outputs	Users reports	Parameters	Diagnostics	Calendars	Communication
Position	Name		Logic	Function	Time	Activation	Blocking of PG outputs		Reports
1	PG output 1		NO	Impulse	00:03:00	Activation	By Other PG		Enter

● ● ●

Blocking of PG outputs 1: PG output 1

Sections

No ⌄

By a detector

No ⌄

By Other PG

2

By deactivation ⌄

By a calendar

OK

(C.) Then select the switching logic to the copy function in the PG2 settings. In the "Activation" setting, select "Night mode".

2	PG output 2	NO	Copy		Activation	None	Enter

● ● ●

Map of PG output activation links 2

2 ⌄ Position   Name PG output 2

Authorized users

0: Service
1: User 1

By dialling in from users' tel. numbers

By a device

Reaction to

Night mode ⌄

Section selection

1

Selection logic
○ OR
○ AND

| Add | Delete | Add | Delete | Add | Delete | |

(d.) Finally, the "Date/Time" setting must be selected in the "Settings" tab. Here, the GPS coordinates of the object are added so that the system can continuously correct the time of darkness according to the location and season. For greater comfort, it is advisable to shift the "Time corrections" for day and night so that the light is already on when it starts to get dark and vice versa, so that it has a short overlap in the morning.