

JA-111P-WG BUS PIR motion detector

The JA-111P-WG is a component of the **JABLOTRON 100** system. It serves for the detection of human movement in building interiors. Its guaranteed detection coverage is 90° horizontally and detection range is 12 m. This PIR motion detector utilizes a **grey lens** which provides better immunity against white light well above values required by the norm (up to 10 000 lux). This helps to reduce false alarms caused by car lights, sunsets, lightning or reflective surfaces. False alarm immunity is available in two options. The detector has a pulse reaction and takes one position in the system. The detector should be installed by a trained technician with a valid certificate issued by an authorized distributor.

Installation

It's necessary to take into consideration that there should be no obstacles in the detector's view which quickly change temperature (electric heaters, gas appliances, etc.), which move (e.g. curtains hanging above a radiator, robotic vacuum cleaners) or the movement of house pets. Despite the detector being very immune to false alarms, it is not recommended to install the detector opposite windows or floodlights or in places with over-intense air circulation (close to ventilators, heat sources, air conditioning outlets, unsealed doors, etc.).

There should be no obstacles in front of the detector obscuring its view over the guarded space.

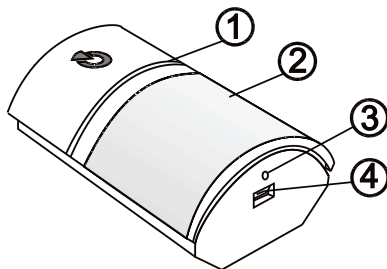


Figure 1: 1 – LED indicators, 2 – PIR lens, 3 – Hole for locking screw, 4 – Cover tab

1. Open the detector cover. Avoid touching the PIR sensor inside (10); you could damage it.
2. Take out the PCB – it is held by a tab.
3. Punch through the holes for the screws and the cable in the plastic base. The recommended installation height is 2.5 m above the floor.
4. Insert the BUS cable and attach the plastic base to the wall (vertically, with the cover tab facing downwards).



When connecting the detector to the system BUS, always switch the power off.

5. Insert the PCB back and connect the BUS cables to the terminals (6).

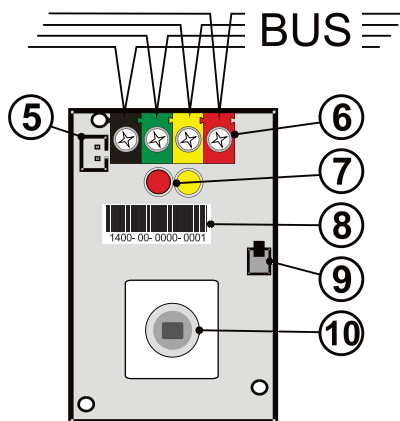


Figure 2: 5 – Connector for external tamper contact of the JA-191PL, 6 – BUS terminals, 7 – LED status indicators, 8 – Production code, 9 – Tamper contact, 10 – PIR sensor

6. Proceed according to the control panel installation manual. Basic procedure:
 - a. When the device is switched on, the yellow LED (7) starts flashing repeatedly to indicate that the module has not been enrolled into the system.
 - b. Go to the **F-Link** software, select the required position in the **Devices** window and launch the enrollment mode by clicking on **Enroll** option.
 - c. Click on **Scan/add new BUS devices**, select the JA-111P-WG detector and double-click on it to enroll it. The detector can be also enrolled by pressing the tamper contact (9). Another way to enroll it is by entering the production code (8) - the yellow LED indicator (7) will shut down.
7. Close the detector cover.

Note:

- The detector can be removed from the system by deleting it from its position in the "Devices" tab.

Detector internal settings

The detector properties can be set in the **Detectors** tab of the F-link software. When at the detector position, use the **Internal settings** option to open a dialog window where you set (*factory defaults):

LED movement indication: Disables*/Enables movement indication with a red LED (7). Always indicates in Service mode.

Immunity level: Defines false alarm immunity. The *Standard** level combines basic immunity with a rapid reaction. The *Increased* level provides higher immunity but the detector reaction is slower.

External tamper sensor: Disables*/Enables monitoring of an additional tamper contact of the JA-191PLB jointed bracket.

Detection characteristics

The standard lens that is supplied with the detector has a grey colour and covers an area of 90°/12 m. The area is covered by 3 beams (curtains) – see the following figure. **The lens cannot be replaced with a different type of lens.**

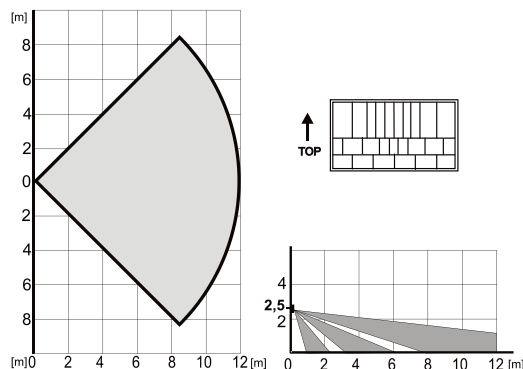


Figure 3. This detection characteristic is valid for standard PIR immunity.

Installation accessories

JA-193PL – Detector wall holder. Instead of installing the detector in a room's corner, it's possible to install it on a wall surface using a **JA-193PL** aesthetic frame which is distributed in two colours – white and grey. Using the frame, the detector is partially hidden under a plaster or plasterboard wall.

JA-191PL – PIR jointed bracket. It is used for special placement, such as installation on the ceiling or at a tilted angle (higher installation height). The jointed bracket is a certified detector accessory having its own tamper contact which is to be connected to the connector inside the detector (5).

Technical specifications

Power	from the control panel BUS 12 V (9 ... 15 V)
Current consumption in standby mode	5 mA
Current consumption for cable choice	5 mA
Recommended installation height	2.5 m above the floor
Detection angle / detection range	90°/12 m
Dimensions	62 x 90 x 37 mm
Weight	63 g
Classification	Security grade 2 / Environmental class II
- according to	EN 50131-1, EN 50131-2-2
- operational environment	indoor general
- operational temperature range	-10 to +40 °C
- average operational humidity	75% RH, without condensation
- certification body	Trezor Test s.r.o. (no. 3025)
Also complies with	EN 50130-4, EN 55022



JABLOTRON ALARMS a.s. hereby declares that the JA-111P-WG module is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC and 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Technical Support section

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit www.jablotron.com.