The JA-112P, JA-112P-GR, JA-112P-AN BUS PIR motion detector

The JA-112P is a BUS device of the **JABLOTRON** system. It is used to detect movement of persons in interiors of buildings. Its guaranteed detection coverage is 90° horizontally and detection range is 12 m. False alarm immunity is available in two options. The detector has a pulse reaction (reports only its activation) 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 is necessary to take into consideration that there should be no obstacles in the detector's field of view which quickly change temperature (electric heaters, gas appliances, etc.), which move (curtains hanging above a radiator, robotic vacuum cleaners, etc.) or the movement of 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 intense air circulation (close to ventilators, air conditioning, vents, unsealed doors, etc.). There should be no obstacles in the detector's field of view that would also obstruct its view into the guarded space.
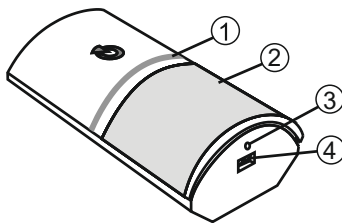

Figure 1: 1 – LED indicator, 2 – PIR lens, 3 – hole for locking screw, 4 – cover tab

1. Open the detector cover by pressing the cover tab (4). 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 BUS, always switch the system power off.**

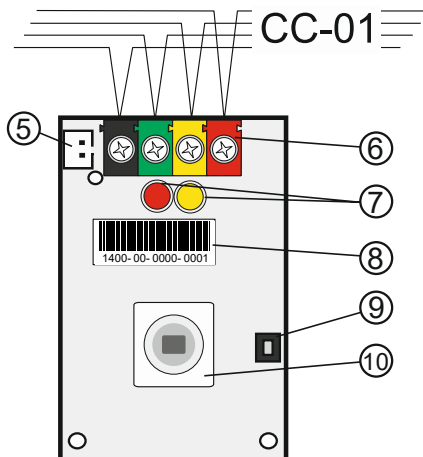5. Insert the PCB back and connect the BUS cables to the terminals (6).

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

6. Proceed by following the control panel installation manual. The control panel must be in Service mode. Basic procedure:
   a. When the device is switched on, the yellow LED (7) starts flashing 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** tab and launch the *Enrollment mode* by clicking on the **Enroll** button.
   c. Click on the option **Scan/add new BUS devices**, select the JA-112P detector and double-click to confirm selection – the yellow LED indicator (7) goes off.
7. Close the detector cover and secure it with a locking screw (3). Then test the detector's function.

Notes:

– The detector can also be enrolled into the system by pressing the cover tamper sensor (9).
– The detector can also be enrolled into the system by entering its production code in the F-Link software. You can find the production code on the sticker (8) inside the detector. All numbers under the bar code must be entered (1400-00-0000-0001).
– In order to comply with belgium INCERT certification installation in the center of the inner corner is required.
– If you want to remove the detector from the system, erase it from its position in the control panel.

Detector internal setting

The detector properties can be set in the **Devices** tab of the **F-link** software. Click on the **Internal settings** button at the detector's position to open a dialog window where you set *(* indicates default settings)*:

LED movement indication: *Disables/Enables** movement indication with a red LED (1). 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-191PL jointed bracket.

Detection characteristics

The detector if fitted with a lens (2) covering an area of 90°/12 m. The area is covered by 3 beams (curtains), see the following figure.
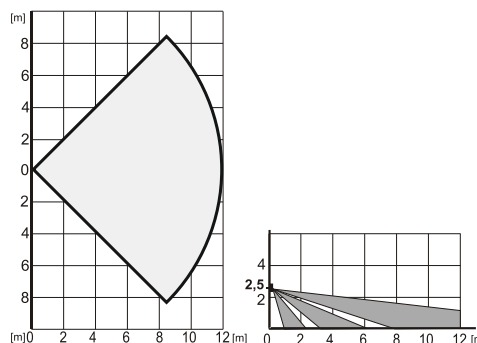

Figure 3: Characteristic is the same for white, grey (GR) and black (AN) lens.

The detector with a white lens (JA-112P) provides standard immunity against white light required by the norm (up to 6000 lux). The detector with a grey (JA-112P-GR) and black/anthracite (JA-112P-AN) lens provides increased immunity against white light well above values required by the norm (up to 10 000 lux).

Installation accessories

JA-196PL-B-S – Detector wall holder

When an aesthetic installation is required, it's possible to install the detector on a wall surface using a JA-196PL-B-S aesthetic frame and mounting box, 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).

JS-7920 – Grey lens

Used to increase the immunity of the PIR detector to white light.

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 (maximum)	16 mA
Recommended installation height	2.5 m above the floor
Detection angle/detection range	90°/12 m
Dimensions	62 x 110 x 40 mm
Weight	77 g
Classification Grade 2/Environmental class II (According to EN 50131-1)	
Operational environment	Indoor general
Operational temperature range	-10 °C to +40 °C
Average operational immunity	75% RH, non-condensing
Certification body	Trezor Test s.r.o. (no. 3025), KIWA
Complies with	EN 50131-1, EN 50131-2-2
	EN 50130-4, EN 55032, EN IEC 63000
T 031 (comply by installation in the centre of the inner corner)	
Recommended screw (countersunk head)	2 x ø 3.5 x 40 mm

JABLOTRON ALARMS a.s. hereby declares that the JA-112P. JA-112P-GR, JA112P-AN are in compliance with the relevant European Union harmonisation legislation: Directives No: 2014/35/EU, 2014/30/EU, 2011/65/EU, when used as intended. 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.

JABLOTRON
CREATING ALARMS

JABLOTRON ALARMS a.s.
Pod Skalkou 4567/33 | 46601 | Jablonec n. Nisou
Czech Republic | www.jablotron.com

CC-01

1400-00-0000-0001

CE

UKCA

.