JA-122PB, JA-122PB-GR, JA-122PB-AN
Bus combined PIR motion and glass break detector

TYPE: 1PIRGBS2201OQ

The detector is a component of the **JABLOTRON** system. It serves for the detection of human movement in building interiors and for the detection of breaking glass windows. This detector combines two sensors (the detector occupies two positions in the system) in one housing. The detector is enrolled to two consecutive positions in the system. The detector uses a **PIR** sensor for human movement detection. Breaking glass is detected by a **GBS** sensor, which analyses air pressure changes and sounds to detect the breaking of a glass window.

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 front of the detector which might obstruct its view of the protected area.

***Warning**: the most common cause of unwanted detector activation is improper placement. The section where the detector is a part of should not be armed when people or animals are in the area.*

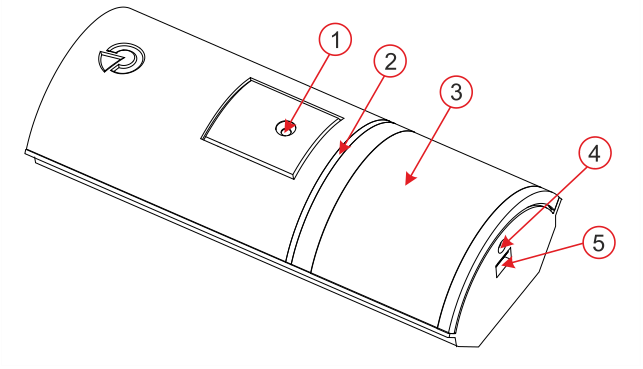

Figure 1: 1 (8) – GBS sensor; 2 – LED indicator; 3 – PIR sensor lens; 4 – hole for locking screw 5 – cover tab;

1. Open the detector cover of the detector by pressing the cover tab (5). Do not touch the PIR sensor inside (13) as it can damage it.
2. Loosen the right retaining screw (9) and release the electronics by using the at the bottom of the plastic (14).
3. The recommended mounting height for the detector is 2.5 m above the floor level.
4. Thread the bus cable and screw the rear plastic (vertically, with the tab of the cover facing downwards).
5. Reinstall the electronics, secure with the tab (14), followed by the screw (9) and connect the bus cable to the terminals (7).

Always connect the bus cable with the system power completely off.

6. Follow the installation manual of the control panel. The basic procedure is as follows:
   a. After powering on the control panel, the yellow LED (10) blinking indicates that the detector is not assigned to the system.
   b. In the F-Link software, select the desired position in the Devices tab and enable the enrolling mode by clicking the Enroll button.
   c. Use the option to select a detector from the list JA-122PB and double-click to confirm learning - the yellow light (10) goes off.
7. Close the detector cover. To ensure proper compliance with the standards, the top must be secured with the locking screw (4).

Notes:

- *The detector can also be enrolled into the system by pressing the cover tamper sensor (12).*
- *The detector can be enrolled by entering the production code (11) in the F-Link software (or a bar code reader). Enter all digits located below the bar code (1400-00-0000-0001).*
- *If you want to remove the detector from the system, erase it from its position in the control panel. In case that only the GBS part (B) is removed, the PIR remains functional.*
- *In order to increase white light immunity, it is possible to utilize a grey PIR lens JS-LT82601B.*
- *After replacing the lens, check that the detector covers the area correctly (an incorrectly installed lens can cause the detection to malfunction).*

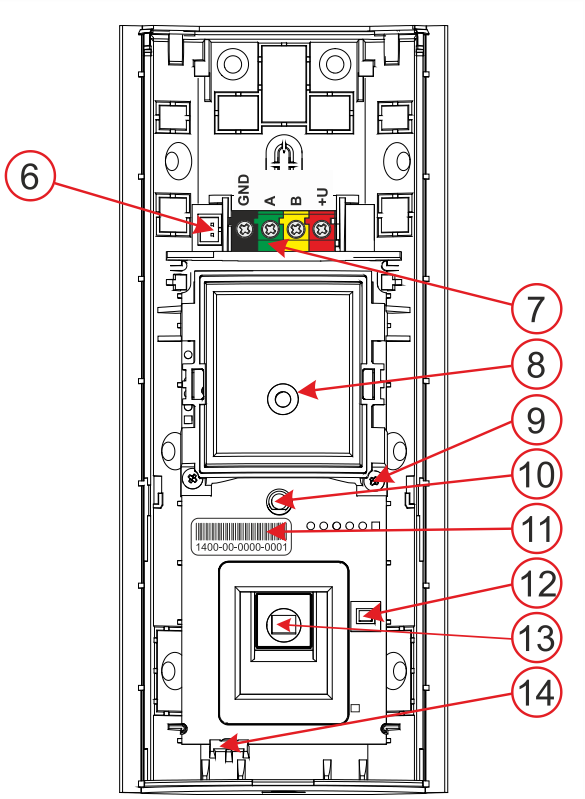

Figure 2: 6 – connector for external tamper contact of the JA-191PL joint bracket; 7 – BUS terminals; 8 (1) – GBS sensor; 9 – GBS module locking screw; 10 – LED status indicators; 11 – production code; 12 – cover tamper sensor; 13 – PIR sensor; 14 – PCB tab

Internal settings of the moduleOpen the ***F-Link*** software, go to the ***Devices*** tab. Click on the ***Internal settings*** option at the detector's position to open a dialogue window where you can set the following options: (* indicates default settings).

LED indication: *Disables/Enables** movement indication with a red LED (10).

PIR 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.

GBS break detection sensitivity (%): The sensitivity of GBS can be adjusted with the slider (75%*).

Sensor of tearing-off from the wall: *Disables*/Enables* monitoring of an additional tamper contact of the JA-191PL jointed bracket.

Detection characteristics

The PIR detector is factory fitted with a 90°/12 m lens. Area coverage – see following picture.

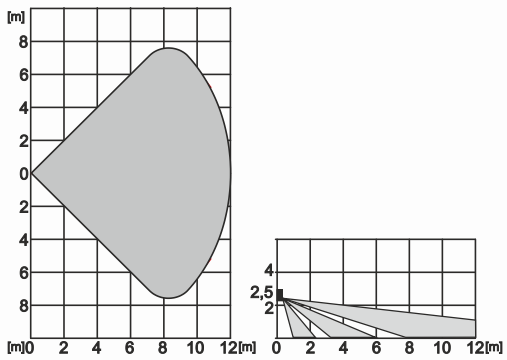

Figure: Detection characteristics of the PIR sensor

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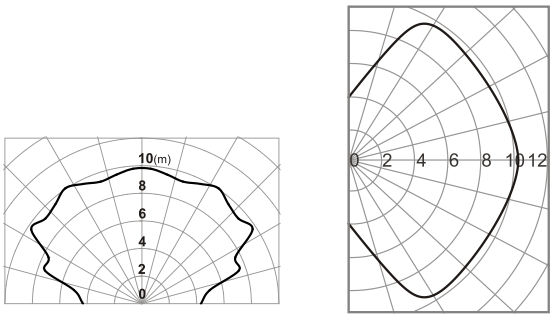

Figure: Detection characteristics of GBS sensor.

Detector with a white lens (JA-122PB) offers standard protection against white light as required by regulation (up to 6000 Lux). Detector with a grey (JA-122PB-GR) and black (JA-122PB-AN) lens offer increased protection against white light, well above the limits given by regulation (up to 10000 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 (6).

JS-LT82601B – Grey lens

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

Technical specifications

Power	from the control panel bus 12 V (8–15 V)
Quiescent current consumption	2.4 mA
Maximal current consumption	12.8 mA
Recommended installation height	2.5 m above the floor
PIR detection angle/range	90°/12 m
GBS detection angle/range	90°/9 m
Dimensions	150 x 63 x 40 mm
Weight (w/o batteries)	135 g
Classification	Security grade 2/Environmental class II (According to EN 50131-1)
Environment	indoor general
Operating temperature range	-10 °C to +40 °C
Average operational humidity	75% RH, w/o condensation
Certification body	Trezor Test s.r.o. (no. 3025)
In compliance with	EN 50130-4, EN 55032, EN IEC 63000, EN 50131-1, EN 50131-2-2, EN 50131-2-7-1
Recommended screw	2 x ø 3.5 x 40 mm (countersunk head)

JABLOTRON ALARMS a.s. hereby declares that the 1PIRGBS2201OQ is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/30/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.