JA-121PW Bus combined PIR + MW motion detector type: 1PIRMW2302RC

The product is a component of the **JABLOTRON** system. It is used for spatial detection of movement of people in the interior of buildings. The combination of PIR and MW makes the detector highly resistant to false alarms. It uses a PIR sensor to detect the movement of people, which is then confirmed by a MW sensor. An alarm is only triggered after both sensors have been activated. The detector is designed to be installed by a trained technician with a valid Jablotron certificate.

Installation

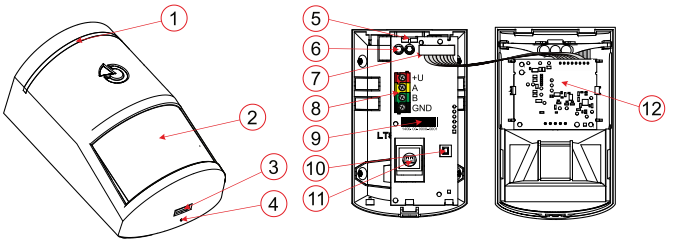
Always switch the power off before connecting the detector to the bus.

Notes:

- During the installation pay attention that there should be no obstacles in the detector's view.
- We do not recommend installing the detector close to metal objects (influence of microwave field).
- It is not possible to install two or more detectors in an area where MW transmitters could interfere with each other.

Installation procedure:

1. Open the cover of detector by using the latch (3), Do not touch the PIR sensor inside (11) – it could be damaged.
2. Release the PCB located in the rear housing part by pressing the latch (5) at the top of the cover. In the rear housing part, break out the hole for bus cable.
3. Push the bus cable through the housing part and attach it to the selected place (vertically, cover latch down).
4. Insert the PCB back and lock with the latch (5) and connect cable wires to the bus terminals (8).
5. Close the detector cover, snap into the cover latch (4) and secure with the locking screw.



1 – LED indicator
2 – PIR sensor lens
3 – cover latch
4 – hole for locking screw
5 – PCB latch
6 – LED
7 – connector for MW module
8 – bus terminals
9 – serial number
10 – tamper
11 – PIR sensor
12 – MW sensor

Fig. 1: *Description of the external and internal parts of the product*

Enrolment to the system and settings

Depending on the type of control panel, use the recommended software or application, see the control panel manual.

Technical specification

Power	*from control panel bus 12 V DC (8–15 V)*
Quiescent current consumption	*1 mA*
Maximal current consumption	*8 mA*
Recommended installation height	*2.5 m*
Detection angle / coverage (PIR)	*110 ° / 12 m*
Detection angle / coverage (MW)	*80 ° / 12 m*
Operating frequency MW	*24.125 GHz*
Maximum effective radiated power MW (EIRP)	*<50 mW*
Dimensions	*60 x 98 x 52 mm*
Weight	*85 g*
Classification	*security grade 2 / environmental class II (according to EN 50131-1)*
With increased immunity against false alarms, EN 50131-1 does not meet.	
Environment	*indoor general*
Operating temperature range	*-10 °C to +40 °C*
Average operating humidity	*75 % RH, non-condensation*
Certification body	*Trezor Test (no. 3025)*
In compliance with	*EN IEC 63000, EN 50130-4, EN 55032, EN 50131-1, -2-4, EN 62368-1, EN ETSI 300 440*
Operating conditions according to general authorization	*ERC REC 70-03*
MW Frequency band according to ERC REC 70-03:	*band m)*
ITU designation for MW	*P0N*
ITU designation for SRD	*80K0F1DAN*
Recommended screw	*2x ø 3,5 x 40 mm (countersunk head)*

We recommend that you familiarize yourself with the terms and conditions set by local telecommunications authorities.

This detector must not be used in Great Britain as the frequency 24.05-24.15 GHz in this frequency band is allocated for police speed meters. In France, no restrictions for fixed installations, otherwise limited to 0.1 mW e.i.r.p. in 24.10-24.15 GHz. In Russia, fixed installations are permitted with a maximum of 100 mW e.i.r.p., subject to specific installation requirements.

JABLOTRON a.s. hereby declares that the 1PIRMW2302RC product is in a compliance with the relevant Union harmonisation legislation: Directives No.: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU, if it is used as intended. 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 an installation version in JA-100, scan the attached QR code.

JABLOTRON