

JJA-161PW Wireless combined PIR + MW motion detector type: 5PIRMW2301LI

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 declared after both sensors have been activated. The detector is designed to be installed by a trained technician with a valid Jablotron certificate.

Installation

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 cover latch (3). Do not touch the PIR sensor inside (11) – could be damaged.
2. Release the PCB located in the rear housing part by pressing the latch (5) at the top of the cover and remove it.
3. Screw the rear cover to the wall (vertically, cover latch down). For proper detection of the detector being torn off the surface, use the rear holes in the oval part of the rear cover to screw it in as well.
4. Insert the PCB back and lock with the latch (5). Insert batteries to the battery holder (8). Make sure the batteries are inserted with the correct polarity. Close the detector cover, snap into the cover latch (3) and lock with the locking screw.

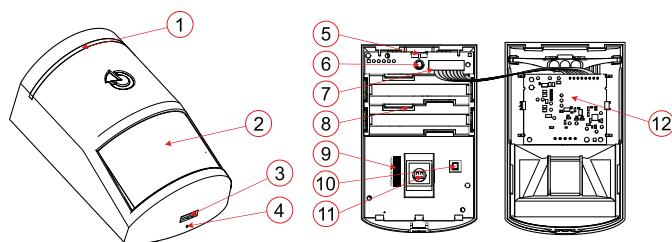


Fig. 1: Description of the external and internal parts of the product

- 1 – light guide
- 2 – PIR lens
- 3 – cover latch
- 4 – hole for locking screw
- 5 – PCB latch
- 6 – LED
- 7 – connector for MW module
- 8 – battery holder
- 9 – serial number
- 10 – tamper
- 11 – PIR sensor
- 12 – MW sensor

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 2x alkaline battery, type LR6 (AA) 1.5 V / 2.45 Ah
Please note: Batteries are not included.
Typical lifetime of batteries approx. 2 years
Low battery voltage <2.4 V
Quiescent current consumption 70 μ A
Maximal current consumption 40 mA
Communication band 868.1 MHz, JABLOTRON protocol
Maximum radio-frequency power (ERP) <25 mW
Recommended installation height 2.5 m
Detection angle / detection coverage (PIR) 110° / 12 m
Detection angle / detection coverage (MW) 90° / 12 m
Operating frequency MW 24.125 GHz
Maximum effective radiated power MW (EIRP) 50 mW
Dimensions 60 x 98 x 52 mm
Weight (without batteries) 93 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 range 75% RH, non-condensation
Certification body Trezor Test s.r.o. (no. 3025)
In compliance with EN IEC 63000, EN 50130-4, EN 55032,
EN 50131-1, -2, -4, -5-3, -6, EN IEC 62368-1,
EN ETSI 300 220-1, -2, EN ETSI 300 440
Can be operated according to 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  $\varnothing$ 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 5PIRMW2301LI 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: <https://manuals.jablotron.com/ja-161pw>.



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