

Wireless PIR and MW combined detector

Code: JA-161PW



A motion detector combining a passive infrared (PIR) sensor and a microwave (MW) sensor. The dual detection increases resistance to false alarms in environments prone to sudden temperature fluctuations, such as air drafts, radiant heating sources, and similar conditions. The standard PIR detector triggers the microwave detection, which either confirms or disproves the presence of motion. The product is compatible only with control panels JA-102K, JA-103K, JA-107K, and JA-152KR, or newer.


Product description:

This is the successor to the original JA-180W detector. The mechanical design is unified with the standard motion detectors of the JABLOTRON 100+ series. The detector's function is identical to the design version JA-162PW. Two-way communication provides safer transmission and convenient configuration without the need for physical access to the peripheral.

In addition to burglary evaluation, the detector can be used for home automation functions, such as automatic lighting upon motion. Microwave detection can be disabled when the system is disarmed, so the detector responds solely to the PIR sensor, providing a faster response for automation functions. The immunity of both PIR and MW detection is adjustable independently. The sensitivity of the microwave sensor can be regulated in 4 levels directly using the F-Link software.

Technical information:

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| 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 µA |
| 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 |

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| 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  ø 3.5 x 40 mm (countersunk head) |