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:

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	&tl;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)	&tl;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 ø 3.5 x 40 mm (countersunk head)