Bus PIR / MW motion detector



Code: JA-121PW

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, or newer.

Product description:

This is the successor to the original JA-120PW 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-122PW and allows full configuration even without 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	from control panel bus 12 V DC (8–15 V)
Quiescent current consumption	2 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)