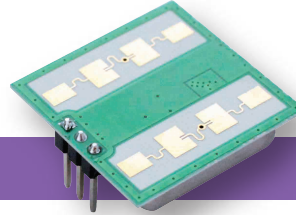


CE RED FCC REACH



## PD-V11 24.125GHz Microwave Motion Sensor

### Application

- Intelligent switch
- Wall-hung switch
- Intruder detect

The microwave motion sensor of PD-V11 24.125 GHz is K-band doppler transceiver module. This is a flat antenna of our own design develop a layout with well-matched transmissions and receptions.

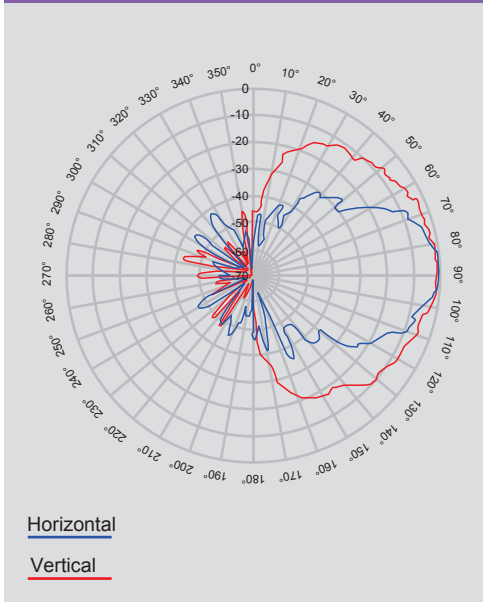
We recalculated and rearranged the internal layout to make it more meaningful. Make the main frequency of the sensor is more stable. These are our a's design patents a wider range of ambient temperatures.

V11-H has lower noise, higher resolution and higher sensitivity. Built-in anti-static function. Compared with traditional similar products, the performance is more stable and reliable.

V11-M and V11-L are different sensitivities that can be customized to the user's needs.

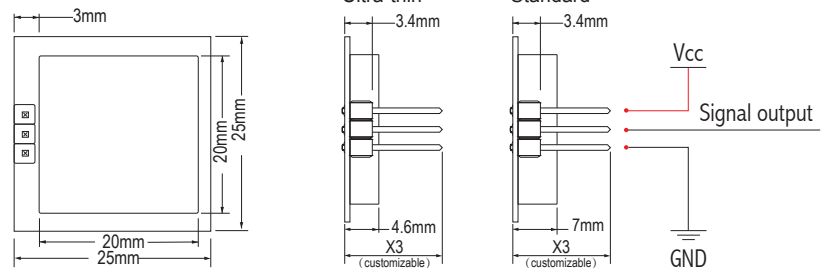
This series of sensor modules is ideal for automatic lighting. Security domain behavior intrusion detection sensor.

### Antenna Beam Pattern



According with EN 300440、EN 62479  
RED directive - 2014/53/EU  
According with FCC Part 15.249  
According with EN 62321,ROHS directive - 2011/65/EU  
According with REACH directive - 1907/2006/EC

### Products size



Parameter	Notes	Min	Typ	Max	Units
Supply Voltage	V <sub>cc</sub>	3.0	5.0	5.25	V
Current Consumption	I <sub>cc</sub>	20	35	38	mA
Operation Mode	Powered by PWM, it can control the working current at 3-15mA				
Pulse Width	T <sub>pulse</sub>		10		μs
Operating Temperature	T <sub>op</sub>	-30~+85	+100 (Max.)		°C
Storage Temperature	T <sub>stg</sub>	-10		+60	°C
Stable Time			<5		μSec
Noise		3.5	4.0	4.5	mVrms
Frequency Setting	f	24.000	24.125	24.250	GHz
Radiated Power (EIRP)	P <sub>out</sub>	<2.0	<2.5	<3.0	mW
Storage Ambient Humidity		45%~65%			RH

**WARNING: The actual detection range is related to the signal amplification gain of the circuit, the overall layout of the PCBA and the threshold of the MCU.**

**Note1:** The radiated emissions is designed to meet FCC and CE rules.

**Note2:** The Received Signal Strength(RSS) is measured at the total 1 Ways path loss of 70dB.

**Note3:** The noise voltages are measured from 10Hz to 100Hz at the Output port, inside an Anechoic chamber.

**Note4:** Pulse operation

### Ningbo Pdlux Electronic Technology CO.,Ltd

Add: Room 1212, Building B, Ningbo Chamber of Commerce Building, 588 Tiantong South Road, Ningbo City, Zhejiang Province  
Tel: 86-574-83008608(20 lines) Email: pdlux@pdlux.com Web: www.pdlux-solution.com www.pdlux.com

