

PD-V12 24.125GHz Microwave Motion Sensor

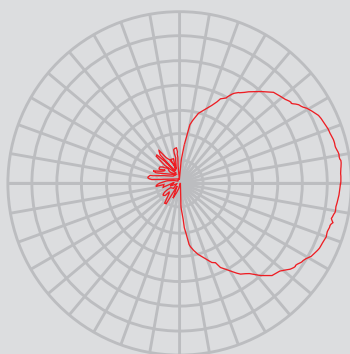
Application

- Intelligent switch
- Wall-hung switch
- Intruder detect

PD-V12 24.125GHz Microwave Motion Sensor is a K-Band Bi-Static Doppler transceiver module. It's built-in Resonator Oscillator (CRO). This module, PD-V12 adopts flat Plane Antenna, suitable for wall mounting. It can improve its front signal receiving ability and reduce its flank blind area. Its performance is better than the sensors in the market.

This module is ideally suitable for occupancy sensor in automatic lighting switches. It can also be used for ceiling mount intruder detectors.

Antenna Beam Pattern



According with EN 300440、EN 62479

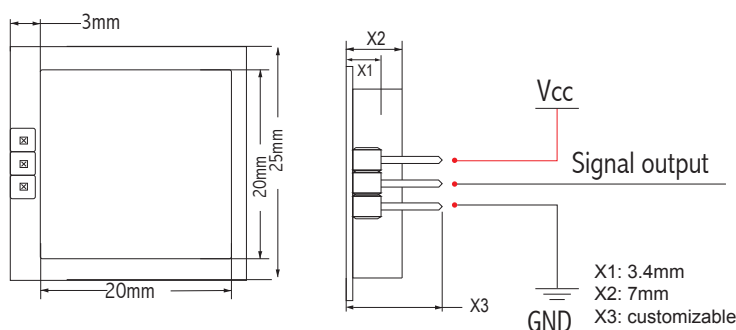
RED directive-2014/53/EU

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 _{cc}	3.0	5.0	5.25	V
Current Consumption	I _{cc}	20	35	38	mA
Operation Mode	Powered by PWM, it can control the working current at 3-15mA				
Pulse Width	T _{pulse}	10			μS
Operating Temperature	T _{op}	-30~+85 +100 (Max.)			°C
Storage Temperature	T _{stg}	-10 +60			°C
Stable Time		<5			μS
Frequency Setting	f	24.000	24.125	24.250	GHz
Radiated Power (EIRP)	P _{out}	<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

