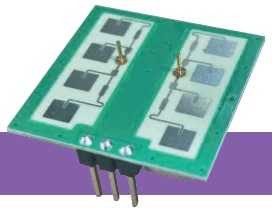
■ High-frequency Microwave Sensor
PD-V21 instruction

CE RED FC REACH RoHS COMPLIANT



PD-V21 24.125GHz Microwave Motion Sensor

Application

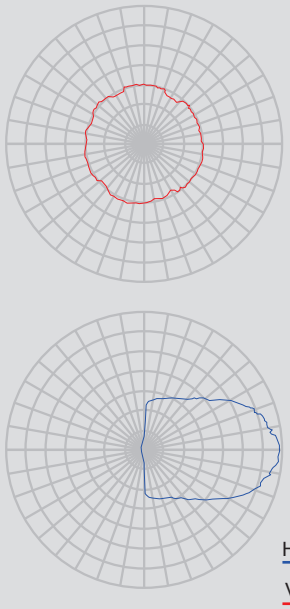
- Intelligent switch
- Wall-hung switch
- Intruder detect

PD-V21 24.125GHz 180°Microwave Motion Sensor is a K-Band Bi-Static Doppler transceiver modlue .It's built-in Resonator Oscillator (CRO).This module,V21 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.

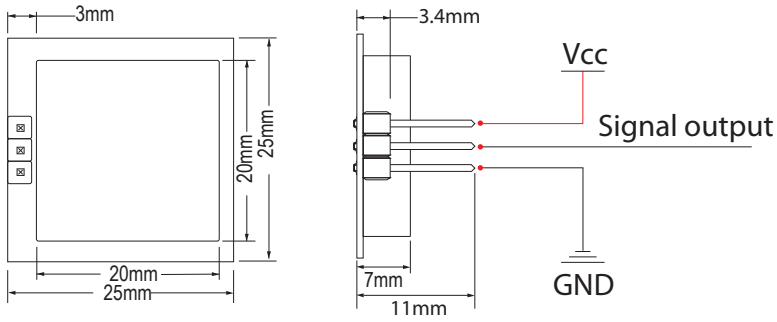
This module is ideally suiable for occupancy sensor in automatic lighting switches.It can also be used for ceiling mount intruder detectors.

According with EN 300440-V2.1.1、EN 62479：2010
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

Antenna Beam Pattern



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	Tpulse	10			μs
Operating Temperature	T_{op}	-30~+85		+100（Max.）	℃
Storage Temperature	T_{stg}	-10		+60	℃
Stable Time		<5			μSec
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 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

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