



PD-V10 180° 24.125GHz Microwave Motion Sensor

Application

- Intelligent switch
- Wall-hung switch
- Intruder detect

Feature and advantage

- Low wireless power output
- Low power consumption
- Non-contact detection
- Easy to connect with the controller
- Low noise output

PD-V10 24.125GHz 180° Microwave Motion Sensor is a K-Band Bi-Static Doppler transceiver module. It's built-in Resonator Oscillator (CRO). This module, V10 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.

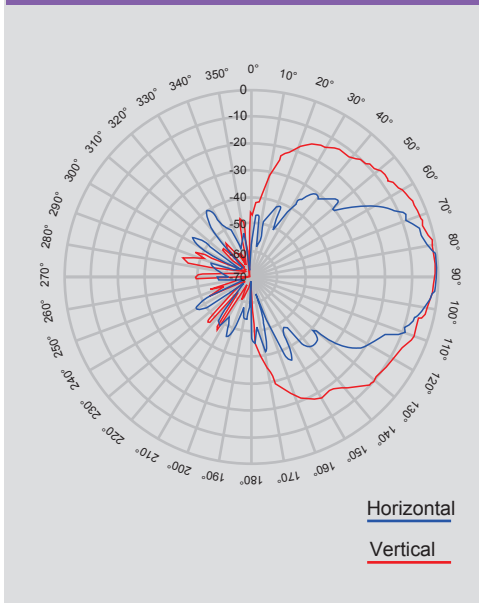
According with EN 300440-V2.1.1、EN 62479: 2010,RED directive-2014/53/eu

According with FCC Part 15.249

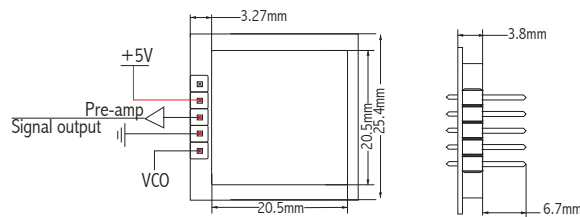
According with EN 62321,ROHS directive-2011/65/eu

According with REACH directive-1907/2006/ec

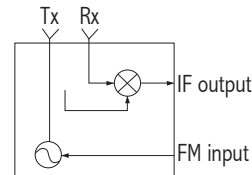
Antenna Beam Pattern



Products size



Block diagram and connection



Parameter	Notes	Min	Typ	Max	Units
Frequency Setting	1	24.050	24.125	24.250	GHz
Radiated Power (EIRP)	1	2.0	2.5	3.0	mW
Settling Time		5	10	20	μSec
Received Signal Strength	2	150	200	250	μVp-p
Noise	3	4.0	4.5	5.0	mVrms
Supply Voltage		4.75	5.0	5.25	VDC
VCO		0.5		2	V
Current Consumption		25	35	45	mA
Pulse Repetition Frequency	4	1.8	2.0	3.0	KHz
Pulse Width	4	10	20	30	μSec
Operating Temperature		-20	25	60	°C
Weight		2.5	3.5	4.0	g

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

Ningbo Pdlux Electronic Technology CO.,Ltd

Add: 17F,Commerce Building of NingBo,
No 588, South Tiantong Rode,Yinzhou District,Ningbo, China

Tel: 86-574-83008608(20 lines) Fax: 86-574-83008609
Email: pdlux@pdlux.com Web: www.pdlux.com