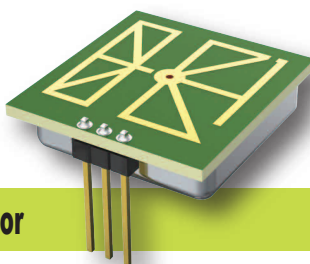




CE016801

R&TTE

FC



## PD-V8-S 5.8GHz 360°/180° 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-V8-S 5.8GHz 360°/180° Microwave Motion Sensor is a C-Band Bi-Static Doppler transceiver module. It's built-in Resonator Oscillator (CRO). This module, V8-S 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.

### Test Report to

#### EN 300 440-1 V1.5.1:

Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1GHz to 40GHz frequency range;  
Part1: Technical characteristics and test methods

#### EN 300 440-2 V1.3.1:

Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1GHz to 40GHz frequency range;  
Part2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

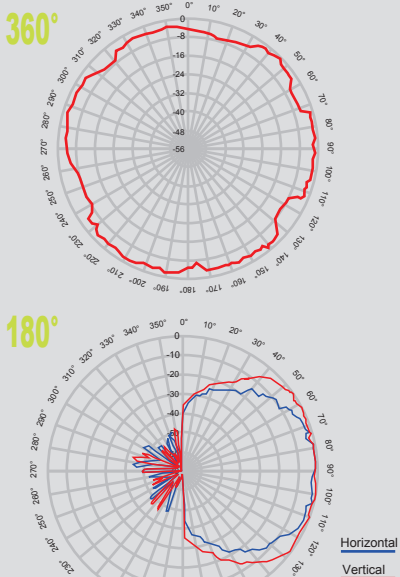
#### EN 50371:2002:

Restrictions for Human Exposure to EM Fields

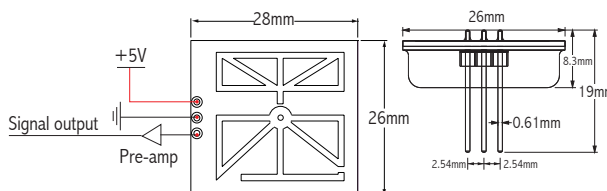
### FCC Part 15.245

limited to intentional radiators used as field disturbance sensors, excluding perimeter protection systems.

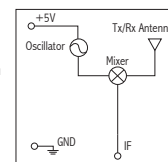
### Antenna Beam Pattern



### Products size



### Block diagram and connection



| Parameter                  | Notes | Min  | Typ  | Max  | Units |
|----------------------------|-------|------|------|------|-------|
| Frequency Setting          | 1     | 5.75 | 5.80 | 5.85 | GHz   |
| Radiated Power (EIRP)      | 1     | 0.18 | 0.20 | 0.22 | mW    |
| Settling Time              |       | 5    | 10   | 20   | μSec  |
| Received Signal Strength   | 2     | 80   | 150  | 180  | μVp-p |
| Noise                      | 3     | 0.5  |      | 1.5  | mVrms |
| Supply Voltage             |       | 4.75 | 5.00 | 5.25 | VDC   |
| Current Consumption        |       | 10   | 12   | 14   | mA    |
| Pulse Repetition Frequency | 4     | 2.0  | 2.2  | 3.0  | KHz   |
| Pulse Width                | 4     | 15   | 50   | 70   | μSec  |
| Operating Temperature      |       | -10  | 22   | 90   | °C    |
| Weight                     |       | 6.0  | 6.6  | 7.2  | 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

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