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INDUSTRIAL PRODUCT DATASHEET

Doppler X band Radar detector sensor module 10.525GHz

Microwave Doppler radar sensor module for non-contact motion detection up to 20 meters at 10.525 GHz, with environmental immunity.

SKU	UPDATED	PRICE
317990023	2024-08-09 01:56:54	$8.90(Excl. VAT)



Overview



This microwave moving object detector uses Doppler radar at 10.525 GHz for non-contact detection, immune to temperature, humidity, noise, airflow, dust, and light. It offers a detection range over 20 meters, low output power safe for humans, and strong RF interference resistance, suitable for automatic door control, safety guard, and automatic video control systems.

Key Features

This is a Microwave moving object detector which is designed by Doppler Radar principle.
It is mainly used in automatic door control, safety guard system, automatic video control system, etc. This module use 10.525 GHz band to detect moving.

Features:
The non-contact detection;
Independent of temperature, humidity, noise, airflow, dust, light, etc., suitable for the harsh environment;
Strong resistance to RF interference;
The output power is small, and did not constitute a hazard to the human body;
Long-distance: the detection range of more than 20 meters .

Specification:
Launched:

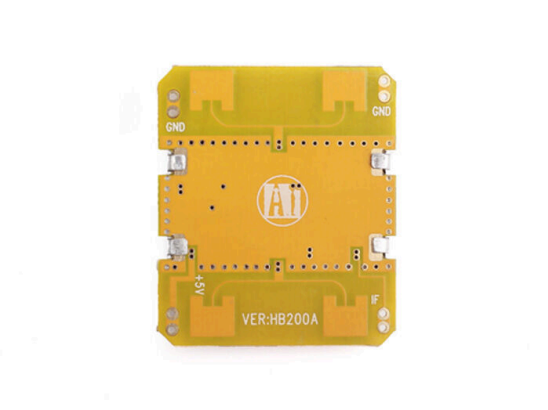
- A transmitting frequency: 10.525 GHz
- frequency setting accuracy: 3MHz
- Output power (minimum): 13dBm EIRP
- Operating voltage: 5V 0.25V
- Operating Current (CW): 60mA max., 37mA typical
- harmonic emission: <-10dBm
- pulse operating modes:
- average current (5% DC): 2mA typ.
- Pulse width (Min.): 5uSec
- duty cycle (Min.): 1%

Receive:

- Sensitivity (10dB S / N ratio) 3Hz to 80Hz bandwidth:-86dBm
- 3Hz to 80Hz bandwidth clutter 10uV
- Antenna Gain: 8dBi

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- vertical plane 3dB beamwidth: 36 degrees
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- horizontal plane 3dB beamwidth: 72 degrees
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- weight: 8 g
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- Specifications: 37 × 45 × 8mm

Product Gallery





Compliance & Logistics

HSCODE	9031900090

Resource Links

- https://www.seeedstudio.com/Doppler-X-band-Radar-detector-sensor-module-10-525GHz-p-2383.html

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