

DS-TDSB00-EKH/2m 2 m Vital Sign Detection Radar



Introduction

Based on the 60 GHz frequency band, vital sign detection radar adopts FMCW, MIMO, beamforming, micro-Doppler feature extraction, and other technologies. It can detect the vital signs, including person, breath, heartbeat, etc.

Vital sign detection radar can be installed above the bed in the bedroom, and the non-contact detection will cover the bed. It can obtain the information, including the time in the bed, the time out of the bed, breath rate, heart rate, times of movements, etc., and help to analyze the sleep quality and health of the human body.

Key Feature

- No privacy disclosure.
- Remote and non-contact detection.
- Outputs the real-time breath rate and heart rate of the human body.
- Detects and outputs the information that if the human body is in the bed to the connected client software. Counts the time in the bed and the time out of the bed.
- Detects and outputs the human body movements to the connected client software, and counts the times of movements.

Specification

General	
Weight	Approx. 125 g (0.28 lb.)
Working Humidity	95% or less (non-condensing)
Working Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Radar	
Working Frequency Range	60 to 64 GHz
Modulation Waveform	FMCW
Capture Distance	0.1 to 2.7 m
Communication Interface	RS-485, WIFI (2.4G)
Working Voltage	9 to 12 VDC
Working Current	≤ 200 mA @ 12 VDC

Typical Application

- Whether the human body is in the bed:**

The radar provides real-time detection of the human body in the bed. If there is a person in the bed, the connected client software will show the sign that someone is in the bed, otherwise it will show the sign that no one is in the bed.

- Breath rate and heart rate:**

If there is someone in the bed, the radar will detect and output the real-time breath rate and heart rate (unit: times/minute) to the connected client software. If there is no one in the bed, the breath rate and heart rate will be 0.

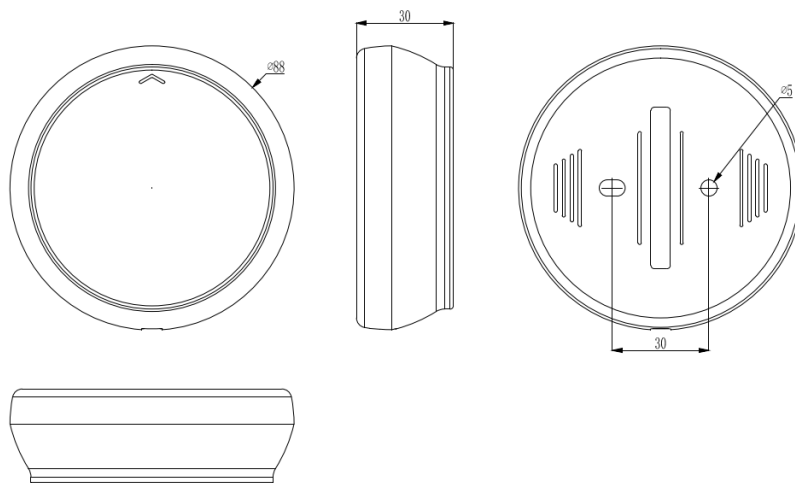
- Body movements:**

The radar will detect the real-time rolling over of the human body and count the times.

Available Model

DS-TDSB00-EKH/2m

Dimension



Unit: mm

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