MODEL NO HN084-03V



PRODUCT 12VDC Microwave Sensor

# PRODUCT SPECIFICATION

DATE	2021-10-20			PREPARED	夏勇
CHECKED	-3 景玄			APPROVED	_ <b>阅蒙</b>
	Cl	JSTOMER RI	ECEIVED		
CUSTOMER			CHECKED		
APPROVED			DATE		

## **HAISEN**<sup>®</sup>

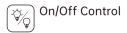




## 12VDC Microwave Sensor

HN084-03V ROHS ( €

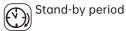
- 12VDC Input, PWM Dimmable
- DIP Switches & Remote Control
- Small Size, One For All

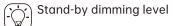




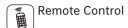










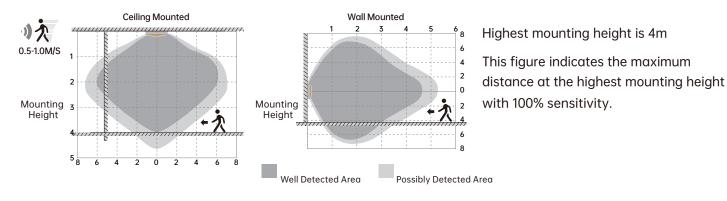


#### **Technical Data**

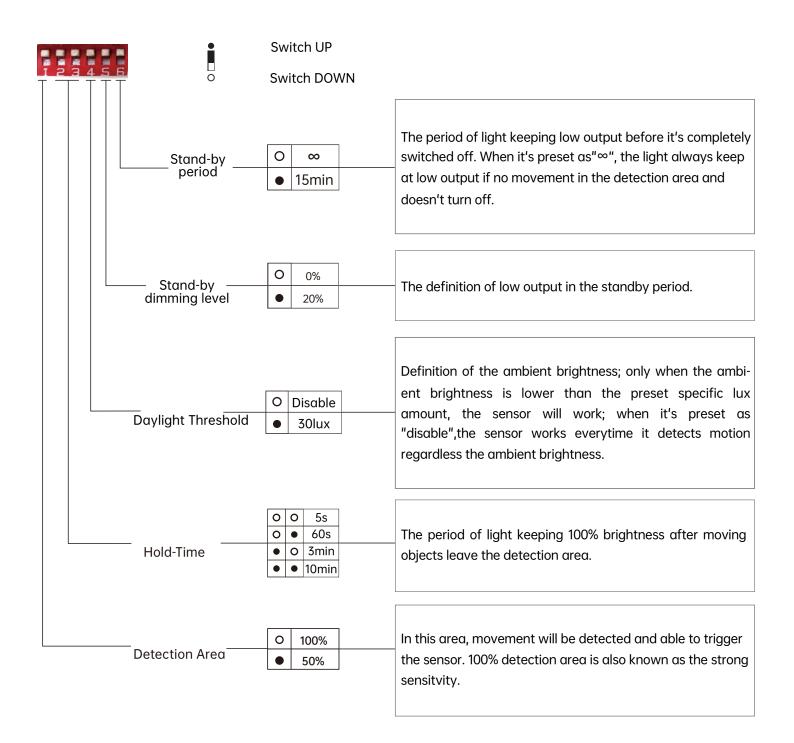
Operating Voltage	Detection Angle	Microwave Frequency		
7.5-12V	Side Wall<150° Ceiling Mounted 360°	5.8GHz±75MHz		
Connection	Brightness Adjust	Microwave Power		
Quick Connector	-/+ buttons on remote	<0.3mW		
Operating Current	Detection Area	IP Rating IP20		
<30mA	DIP Switch:50%/100% Remote:50%/100%			
Control Method	Stand-by dimming level	Warranty <b>5 年</b>		
PWM	DIP Switch: 0%/20% Remote: 0%/10%/20%/30%			
Mounting Height	Stand-by period			
2-4m/6.56-13.12ft Ceiling Mounted	DIP Switch: 15min/+∞ Remote: 5min/15min/30min/+∞			
Detection Range	Hold Time			
Max.ø12m/39.37ft Ceiling Mounted	DIP Switch: 5S/1min/3min/10min Remote: 30S/1min/3min/10min			
Operating Temperature	Daylight Threshold			
-20°C~+60°C	DIP Switch: 30Lux/Disable Remote: 10LUX/30LUX/50LUX/Disable			



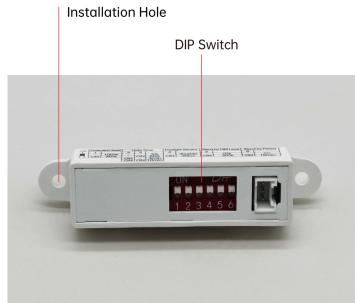
#### **Detection Patterns**



#### **DIP Switch Setting**

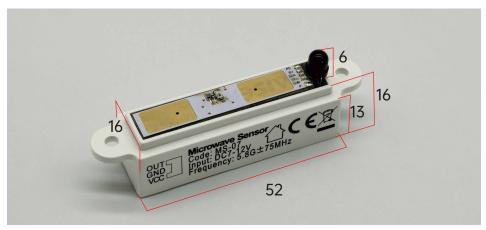




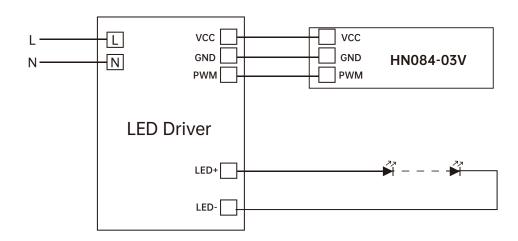


### **Dimensions**

Unit:mm



## Wiring Diagram

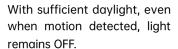




#### Performance

#### 1. Automatically ON/OFF function







With insufficient daylight, the sensor turns light ON when motion gets detected.



The sensor turns OFF light automatically after the holdtime when there's no motion detected.

#### 2.Daylight Disable

When daylight threshold is preset as "disable", the sensor turns light ON when motion gets detected, and OFF after hold-time.



The sensor turns light ON when motion gets detected.



The sensor keeps light ON for holdtime period after motion leaves.



The sensor turns OFF light automatically after the holdtime.

#### 3. Corridor Function, Bi-level Dimmable



With sufficient daylight, the sensor keeps light OFF even motion gets detected.



With insufficient daylight, the sensor turns light ON when motion gets detected.



After there's no motion detected, the sensor keeps light ON 100% for holdtime.



After holdtime, sensor dims light to standby dimming level for standby period.



The sensor turns OFF light automatically after the standby period when there's no motion detected.

### HAISEN



- 1. Please read the instructions carefully before using this product and keep it well for all users to read at any time.
- 2. The sensor should be installed by qualified electrician and ensure power is off before the installation.
- 3. We reserve the right to modify any incorrect text, image and necessary technical parameters.
- 4. Any unauthorized modification is forbidden, otherwise all guarantees will be immediately invalid.

#### Installation precautions

- 1. Microwave sensor can be installed in any lamp except the one with full metal shell.
- 2. The detected surface cannot be shielded by metal objects.
- 3. Make sure the microwave module is completely exposed outside.
- 4. The detection surface of the sensor module shall be installed facing the detection area.
- 5. Should be kept away from the driver to avoid interference generation and lamp flashing.
- 6. Wiring must be strictly in accordance with the wiring diagram to avoid short circuit.

#### **Application Environment**

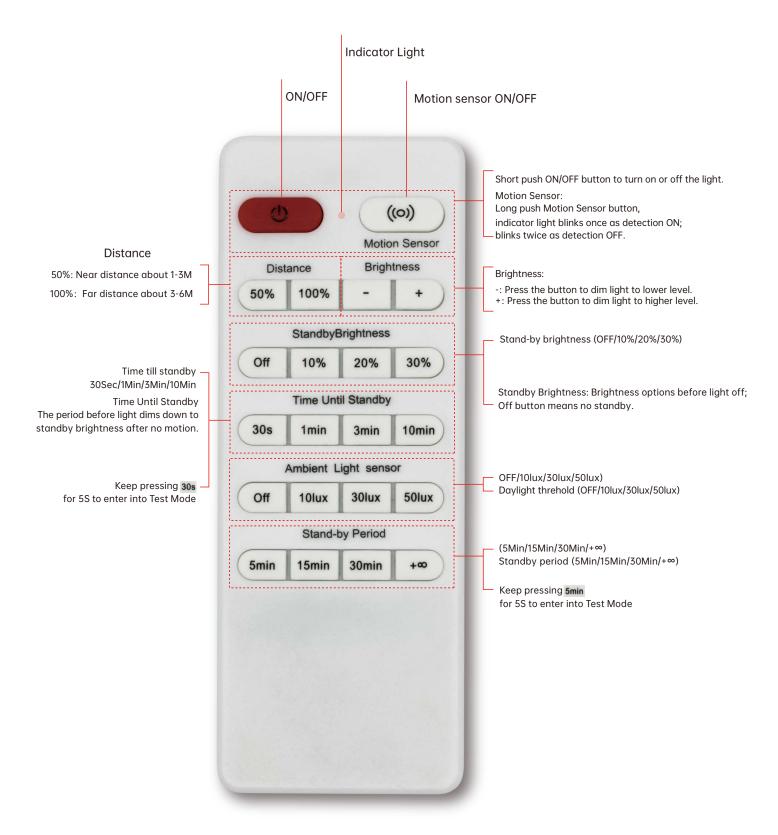
- 1. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swing.
- 2. Shall not be installed in the place with all four metal shelters and small space (such as galvanized-iron roof ).
- 3. Shall note be mounted installation, so as to avoid false trigger caused by the lamp itself shaking.
- 4. Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.
- 5.The sensor might be unwanted triggered in rooms that are small, or mostly filled with metal materials; please try to decrease sensitivity when it happens or contact us for support.

#### **User Notes**

- 1.Microwave can penetrate walls or glass thinner than <20mm and attenuate if thicker than <20mm.
- 2. The driver voltage shall be stable and float within 10%.
- 3. Detection area will be affected by speed of motion, mounting height and movement volume.
- 4. Conduct test on sunny days without the lampshade which will affect the tested lux value.
- 5. 3M distance is suggested when having a lot sensors in one same room.
- 6. If the sensor is applicated in the room with 5G WiFi router, 3M distance or above is needed.

#### Instruction of Remote Control

Model: HD20R



#### Remark:

Indicator light on the remote will blink once every time it successfully delivers command.