

HDI03VCR-1A



12VDC Microwave Sensor In IC Solution

- 12VDC Input, 0-10V Dimmable
- Original IC Solution
- DIP Switches & Remote Control
- Small Size, One Fits All



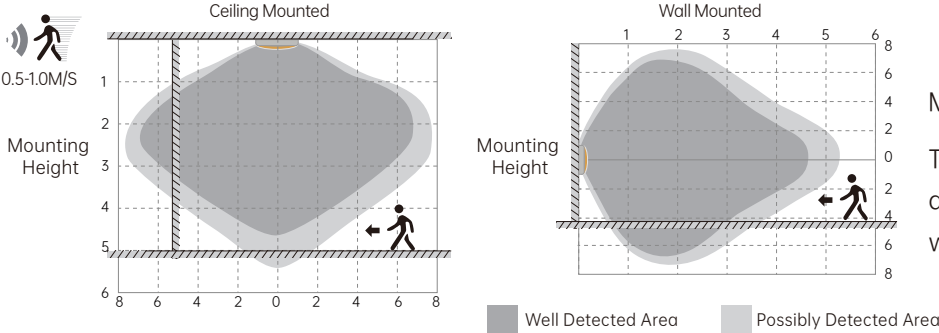
 On/Off Control	 Detection Area	 Daylight Sensor	 Hold Time
 Stand-by Period	 Stand-by Dimming Level	 5 years Warranty	 Remote Control

Technical Data

Operating Voltage 10-15V	Detection Area DIP Switch: 50%/100% Remote: 25%/50%/75%/100%	Microwave Power <0.3mW
Operating Current <30mA	Hold Time DIP Switch: 5s/30s/1min/10min Remote: 5s/30s/1min/3min/5min/10min/20min/30min	
Stand-by Power <0.5W	Daylight Threshold DIP Switch: 50Lux/Disable Remote: 2Lux/10Lux/15Lux/50Lux/80Lux/120Lux/Disable	
Control Method Dim 0-10V	Stand-by Period DIP Switch: 0s/1min Remote: 0s/10s/30s/1min/5min/10min/20min/30min/+∞	
Switching Capacity Current <40mA	Stand-by Dimming Level DIP Switch: 10%/30% Remote: 10%/20%/30%/50%	Microwave Frequency 5.8GHz±75MHz
Mounting Height 2.5-4.5m/8.2-14.76ft Ceiling Mounted	Function Setting DIP Switch Setting: HDI03VCR-1A uses front-side DIP switches, while HDI03VCR-2A uses rear-side DIP switches. Remote Control Setting: HD05R/HD03R	IP Rating IP20
Detection Range ø6-14m/19.68-45.93ft Ceiling Mounted	Detection Angle Side Wall <150° Ceiling Mounted 360°	Warranty 5 years
Connection 3 Pin Output for VCC GND 0-10V	Operating Temperature -20°C~+70°C	

Factory Default Settings: Detection Area 100%/ Hold time 5s/ Daylight Threshold Disabled/Stand-by Period 0s/Stand-by Dimming Level 10%. Can be customized.

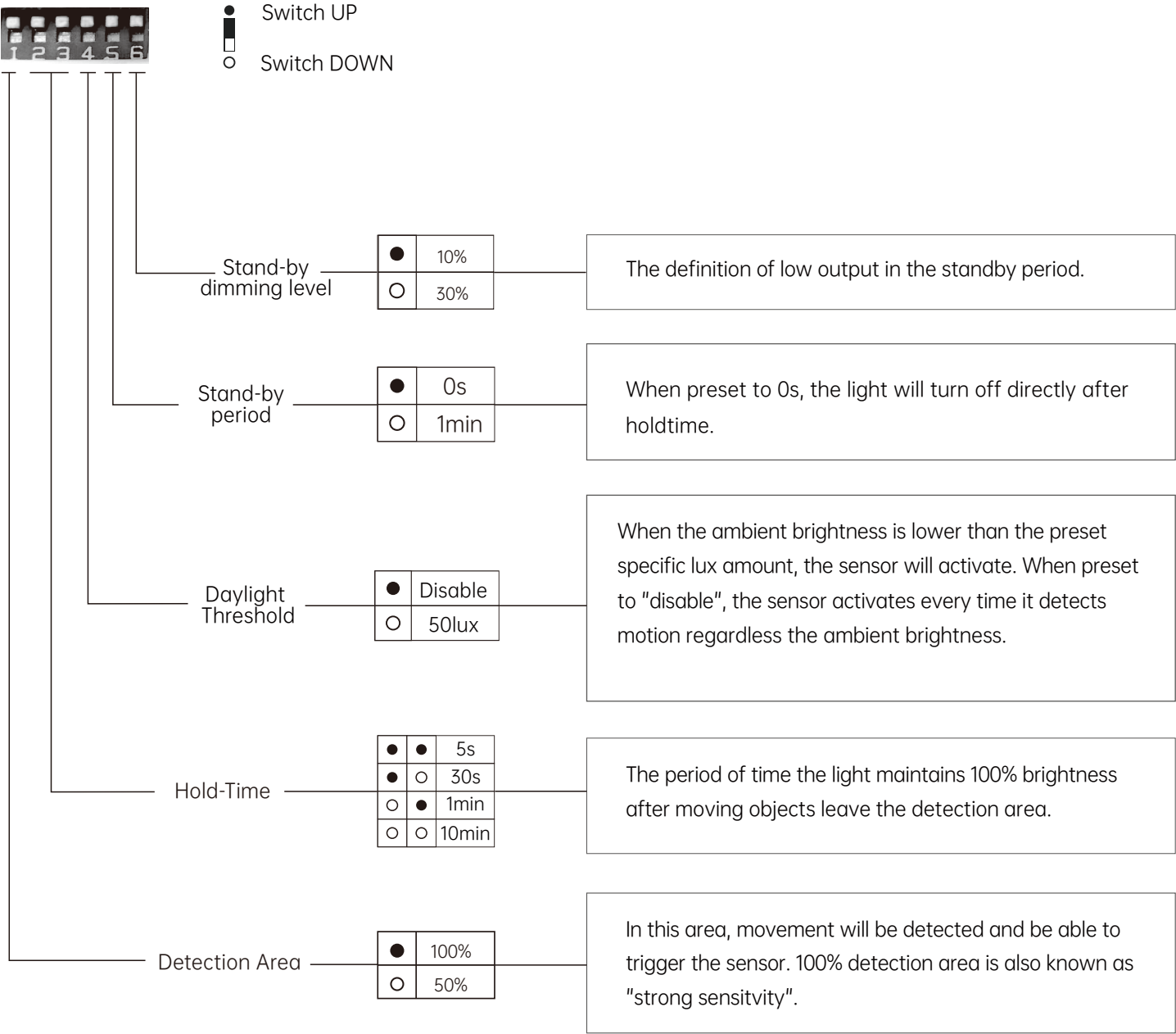
Detection Patterns



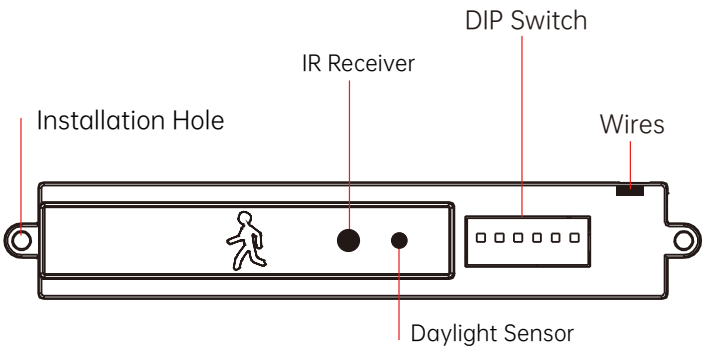
Maximum mounting height is 4.5m

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

DIP Switch Setting

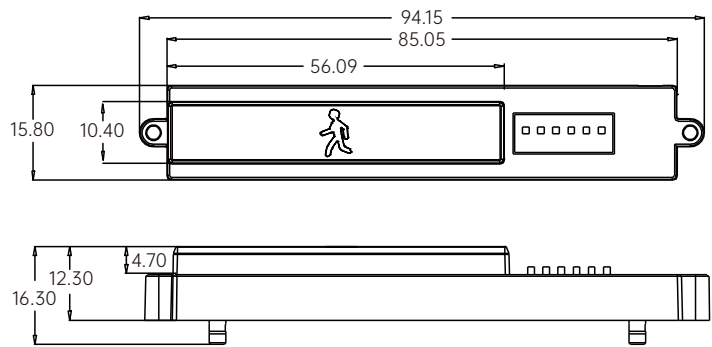


Mechanical Structure

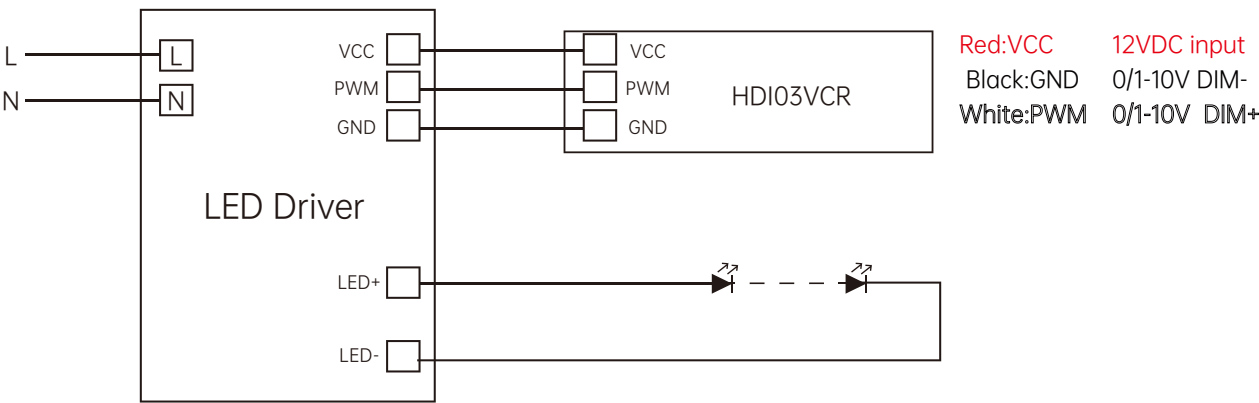


Dimensions

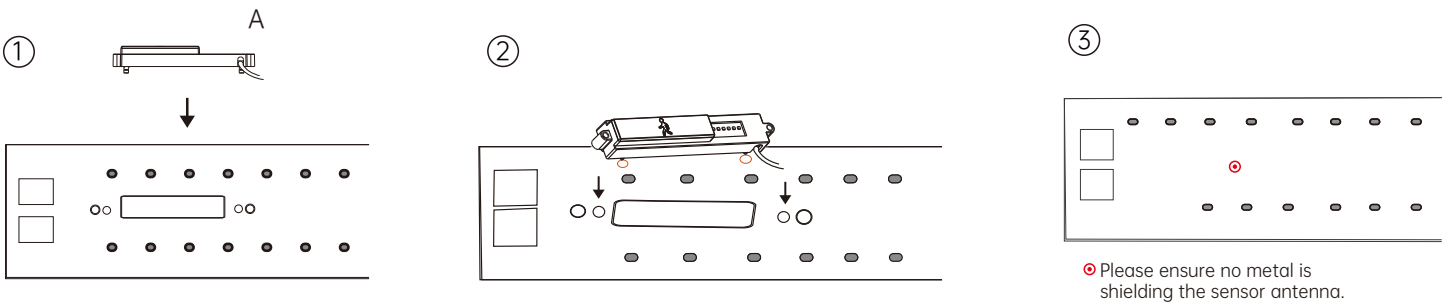
Unit:mm



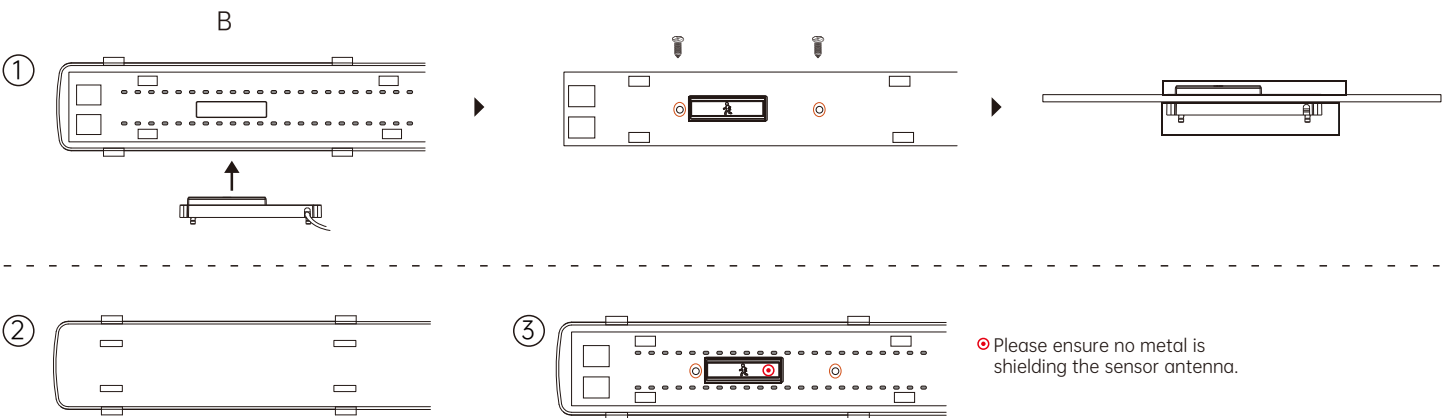
Wiring Diagram



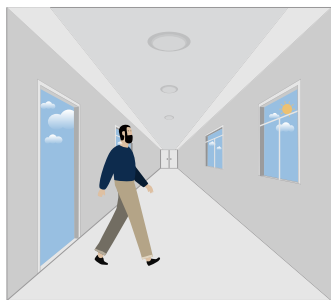
Installation Method



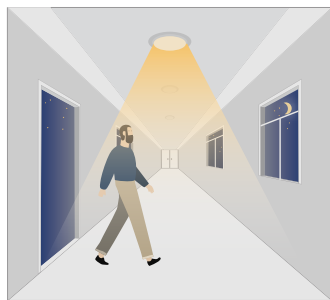
Installation Method



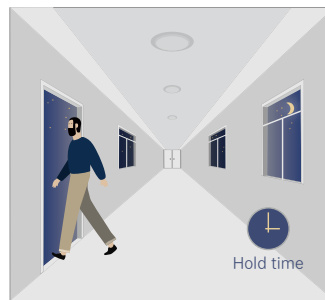
1. Automatically ON/OFF function



With sufficient daylight, even when motion detected, the light remains off.



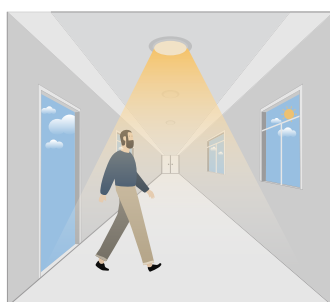
With insufficient daylight, the sensor turns light on when motion is detected.



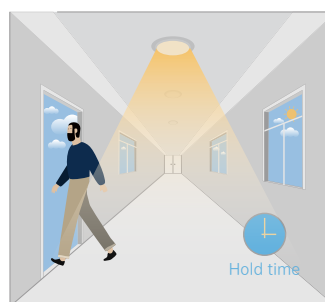
The sensor turns the light off automatically after the holdtime if there is no motion detected.

2. Daylight Disable

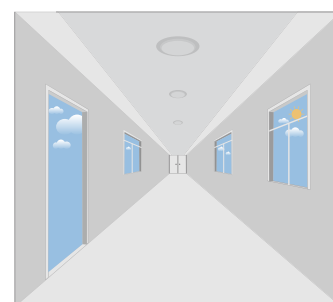
When daylight threshold is preset to "disable", the sensor turns light on when motion is detected, and off after holdtime.



The sensor turns light on when motion is detected.

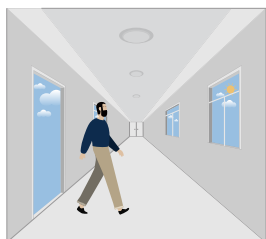


The sensor keeps the light on for the holdtime period after motion stops.

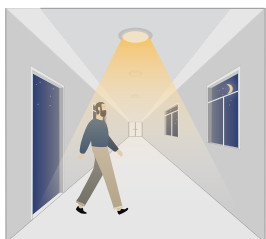


The sensor turns the light off automatically after the holdtime.

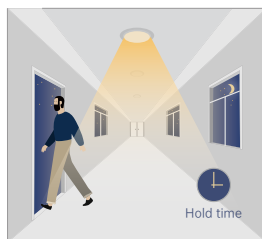
3. Corridor Function, Bi-level Dimmable



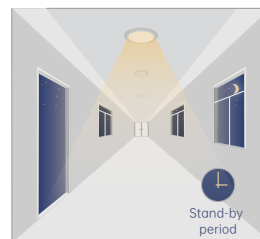
With sufficient daylight, the sensor keeps the light off even if motion is detected.



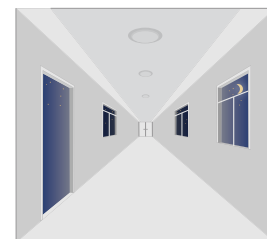
With insufficient daylight, the sensor turns the light on if motion is detected.



If no motion is detected, the sensor keeps the light on for 100% of the holdtime.



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



The sensor turns the light off automatically after the standby period if no motion is detected.



Attention

1. Please read the instructions carefully before using this product and keep it for all users to read at any time.
2. The sensor should be installed by a qualified electrician. Ensure power is off before 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. The sensor can be installed in any lamp except any with a full metal shell.
2. The detected surface should not be shielded by metal objects.
3. Make sure the microwave module is completely exposed to the outside.
4. The detection surface of the sensor module must be installed facing the detection area.
5. The sensor 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 circuiting.

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 not 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. Microwaves can penetrate walls or glass thinner than <20mm and attenuate if thicker than <20mm.
2. The driver voltage must be stable and float within 10%.
3. The detection area will be affected by speed of motion, mounting height and movement volume.
4. Conduct tests on sunny days without the lampshades which will affect the tested lux value.
5. 3M of distance is suggested when having many sensors in one room.
6. If the sensor is installed in a room with a 5G WiFi router, 3M distance or more is needed.