









HDI03VCR-1A



12VDC Microwave Sensor In IC Solution

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



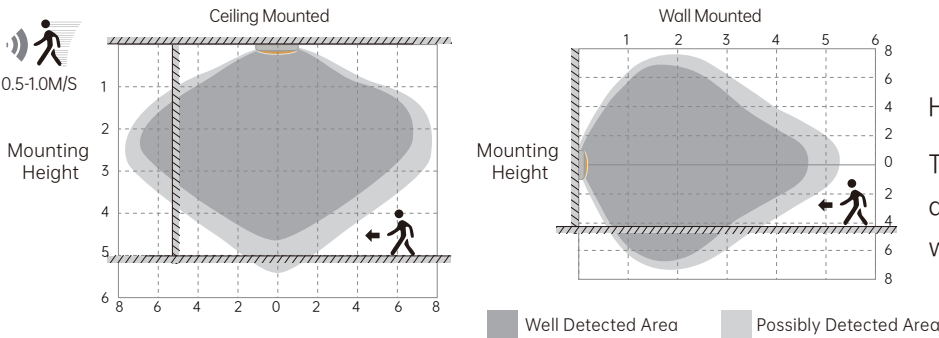
 On/Off Control	 Detection Area	 Daylight Sensor	 Hold Time
 Stand-by period	 Stand-by dimming level	 5 years Warranty	 Remote Control

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 Setting: Detection area 100%/ Hold time 5s/ Daylight threshold Disable/Stand-by period 0s/ Stand-by dimming level 10%. Can be customized default programming.

Detection Patterns



Highest mounting height is 4.5m

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

DIP Switch Setting

1 2 3 4 5 6

● Switch UP

○ Switch DOWN

Stand-by dimming level

●	10%
○	30%

The definition of low output in the standby period.

Stand-by period

●	0s
○	1min

When it's preset as 0S, the light turn OFF light directly after holdtime.

Daylight Threshold

●	Disable
○	50lux

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable",the sensor works everytime it detects motion regardless the ambient brightness.

Hold-Time

●	●	5s
●	○	30s
○	●	1min
○	○	10min

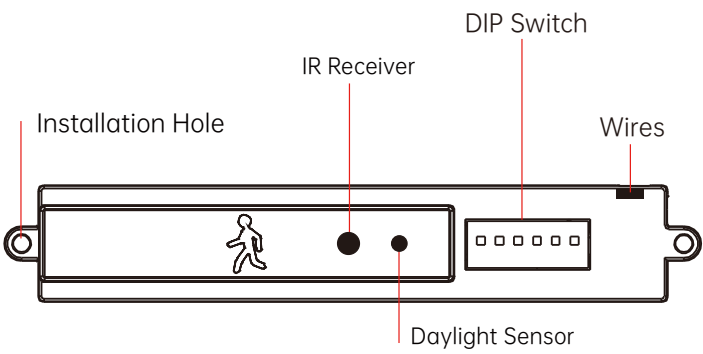
The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

●	100%
○	50%

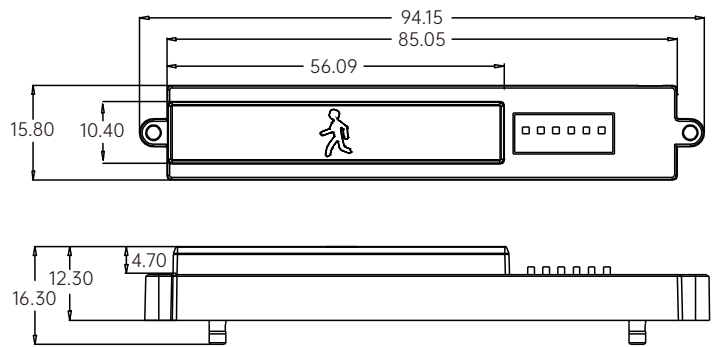
In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

Mechanical structure

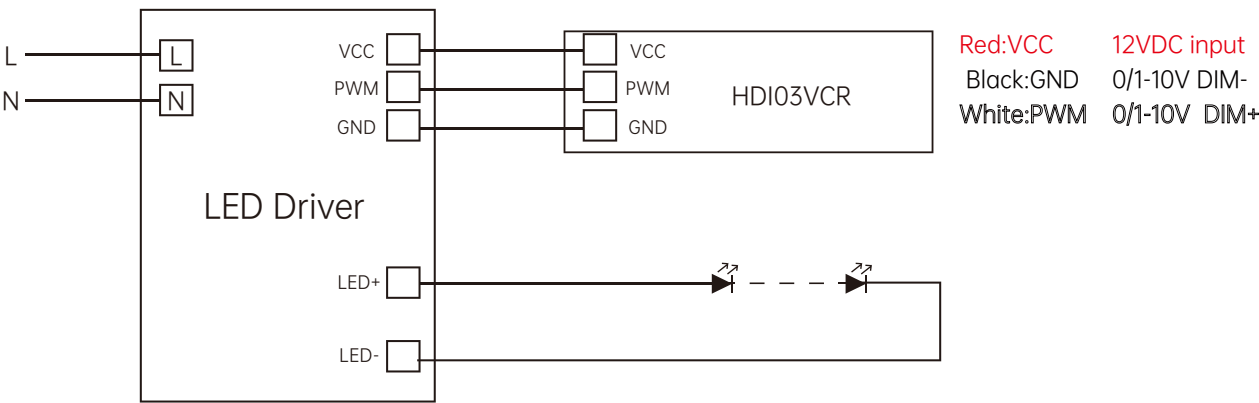


Dimensions

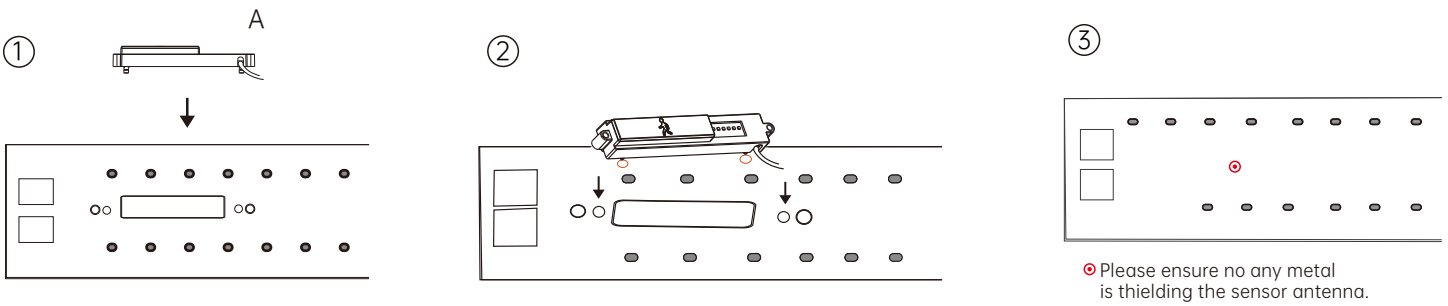
Unit:mm



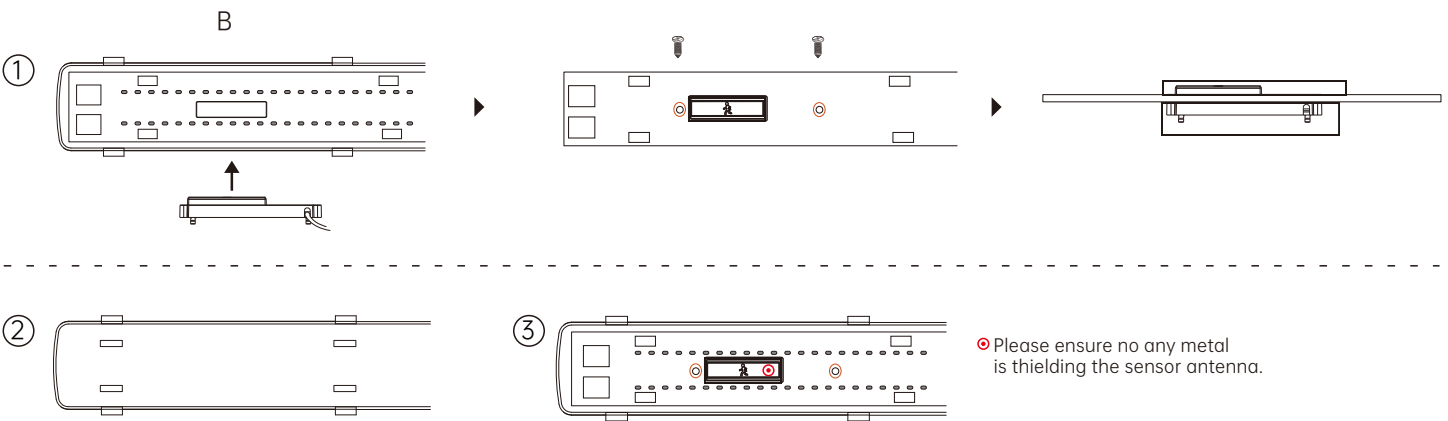
Wiring Diagram



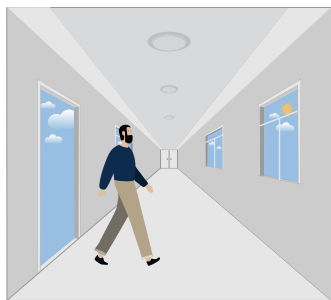
Installation Method



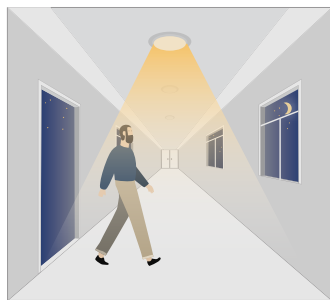
Installation Method



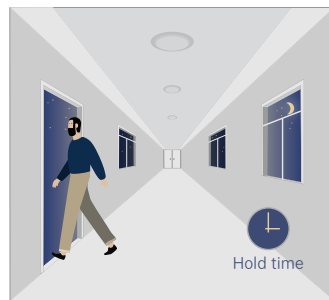
1. Automatically ON/OFF function



With sufficient daylight, even when motion detected, light remains OFF.



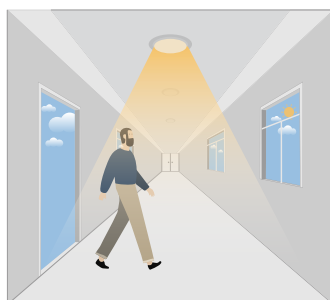
With insufficient daylight, the sensor turns light ON when motion gets detected.



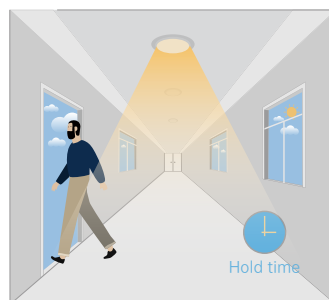
The sensor turns OFF light automatically after the holdtime when there's no motion detected.

2. Daylight Disable

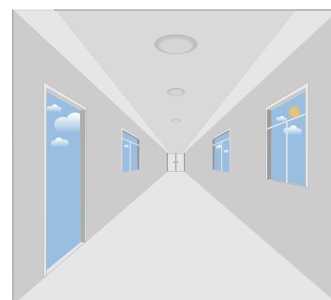
When daylight threshold is preset as "disable", the sensor turns light ON when motion gets detected, and OFF after holdtime.



The sensor turns light ON when motion gets detected.

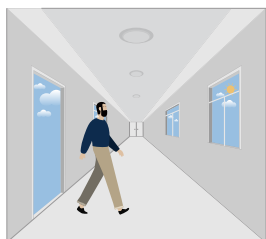


The sensor keeps light ON for holdtime period after motion leaves.

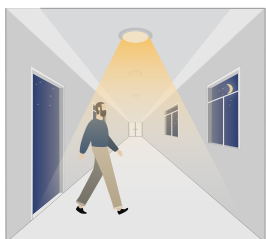


The sensor turns OFF light automatically after the holdtime.

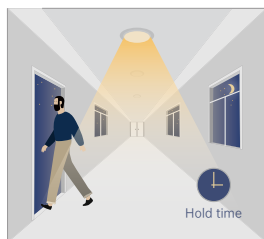
3. Corridor Function, Bi-level Dimmable



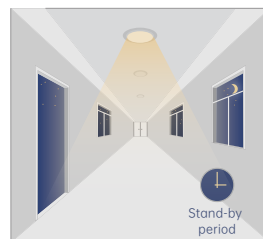
With sufficient daylight, the sensor keeps light OFF even when motion gets detected.



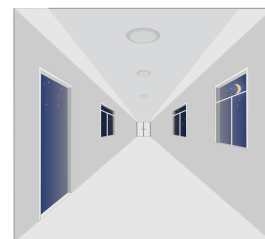
With insufficient daylight, the sensor turns light ON when motion gets detected.



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.



Attention

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 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. 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 applied in the room with 5G WiFi router, 3M distance or above is needed.