SLS Sensor

Information and Operation Instructions

| On/off control | Detection area | Hold time | Daylight threshold | Remote control | 5 years warranty | RoHS COMPLIANT | CE |

Technical Data

Operating voltage	10.5–15V DC (supply current >50mA)
Operating current	<30mA
Output	ON/OFF 1–10V
Stand–by power	≤0.5W
Detection area	50% /100%
Hold time	30s/1min/2min/5min
Daylight threshold	Disable/50Lux
Stand–by period	0s/1min/5min//+∞
Stand–by dimming level	10%/30%
Microwave frequency	5.8GHz±75MHz
Microwave power	<0.3mW
Mounting height	Max.4.5m (ceiling mounted)
Detection range	ø4–8m (ceiling mounted)
Detection angle	360°（ceiling mounted），150°（Wall Mounted）
Operating temperature	–40°C~+80°C
Size	84*18*11 mm
Warranty	5 years

Dimensions (Units: mm)

18

84

11

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Mechanical Structure

IR Receiver

Daylight threshold

Antenna module

Red: VCC
Black: GND

White: DIM +
Black: DIM −

Mode selection (8)

Stand−by dimming level (7)

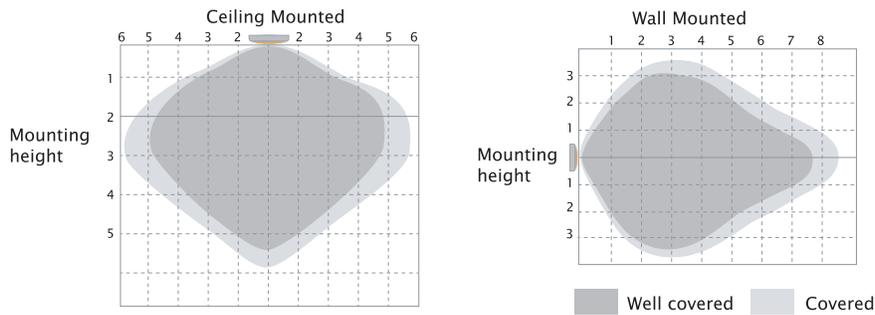Stand−by period (5,6)

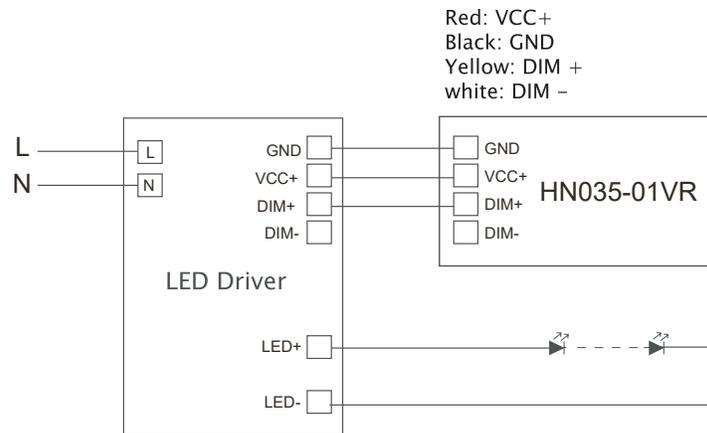(1) Detection area

(2,3) Hold time

(4) Daylight threshold
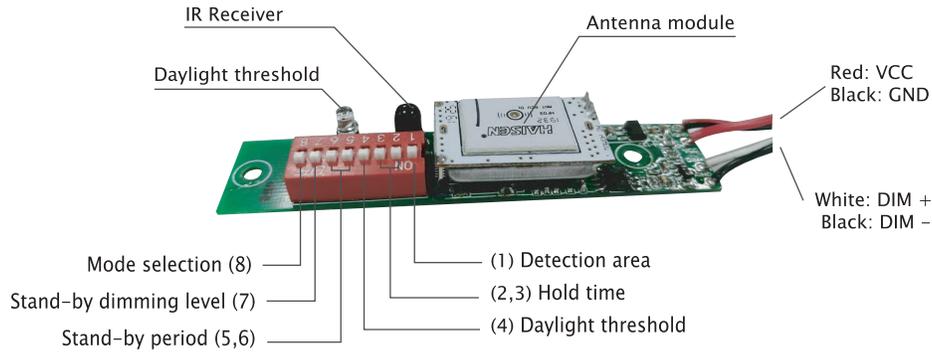
Detection Coverage
Typical installation height 2.5-4.5m
This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Ceiling Mounted

6 5 4 3 2 2 3 4 5 6

Mounting height

1
2
3
4
5

Wall Mounted

1 2 3 4 5 6 7 8

Mounting height

3
2
1
1
2
3

Well covered   Covered

Wiring Diagram

Red: VCC+
Black: GND
Yellow: DIM +
white: DIM −

L

N

L

N

GND
VCC+
DIM+
DIM−

GND
VCC+
DIM+
DIM−

HN035-01VR

LED Driver

LED+

LED−

Settings

Detection area
Hold-time
Daylight threshold
Stand-by period
Stand-by dimming level
Mode selection

● Switch UP
○ Switch DOWN
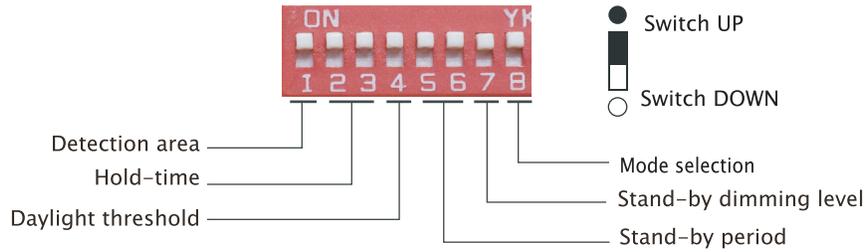
●	100%
○	50%

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

●	●	30s
●	○	1min
○	●	2min
○	○	5min

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

●	Disable
○	50lux

Daylight threshold
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.

●	●	0s
●	○	1min
○	●	5min
○	○	+ ∞

Stand-by period
The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

●	10%
○	30%

Stand-by dimming level
The definition of low output in the standby period.

●	ON
○	OFF

Mode selection
Sensor mode on when the DIP switch is up; sensor mode off when the DIP switch is down.

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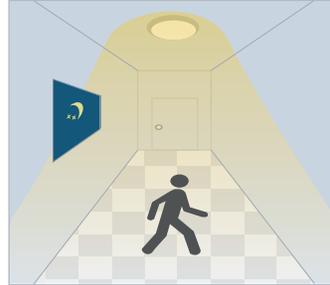
Application

1. Automatic ON/OFF function:
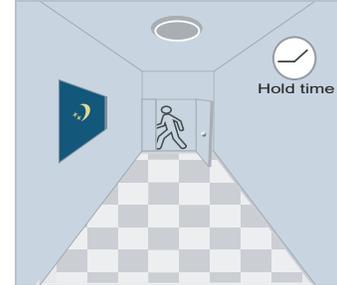The Stand-by period is set to "0s".
Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.

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

With insufficient daylight, when motion is detected, light ON.

After the last detection and the present hold time elapsed, light OFF.
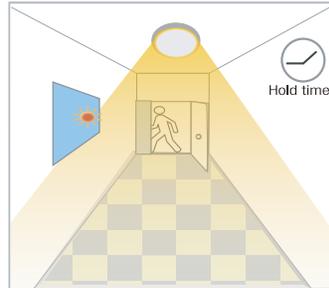
2. No daylight function
The daylight threshold is set to "Disable".
Light on when detect movement, After people leave, Light off after stand-by period 0s/10s/30s/1min/5min/10min/30min.
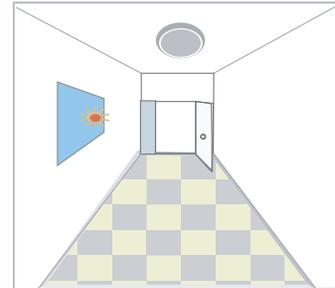Applications: Dim places such as Basement Parking, Underpass.

When motion is detected, the sensor will switch on the light to 100% brightness.

After people leave the detection area, light remains 100% brightness within hold time.

After the last detection and the present hold time elapsed, light OFF.
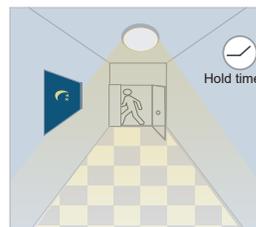
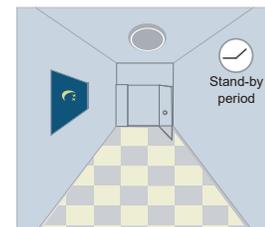### 3. Function Demo - Dimmable control/Corridor function

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

With insufficient daylight, when motion is detected, light ON.

After the last detection, the light will be dimmed down to the stand-by dimming level (10%, 30%) after holdtime.

After the stand-by period, light OFF.

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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.

User Notes

1. Microwave can penetrate walls or glass thinner than 20cm and attenuate if thicker than 20cm.
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.