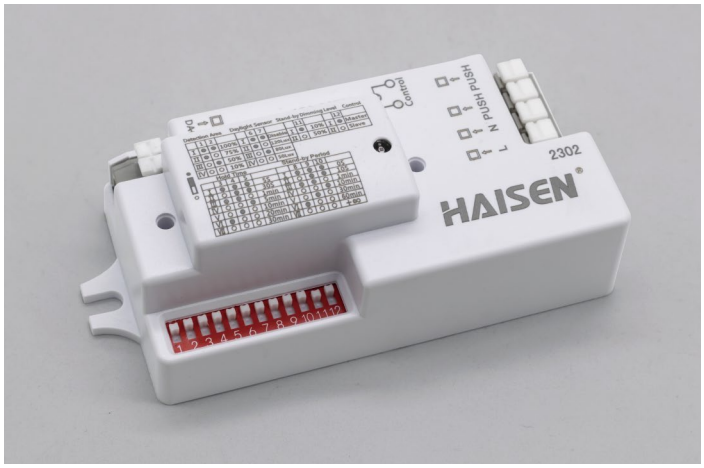
HAISEN



DALI sensor

HDD01-2B

- 5.8GHz microwave motion sensor with dimmable function
- Loop in and loop out for easy installation
- Suitable for Ceiling lights or Bulkhead
- Sensitive and reliable •5 year limited warranty

On/Off Control | Detection Area | Daylight Sensor | Hold Time

Stand-by period | Stand-by dimming level | 5 years Warranty

Technical Data

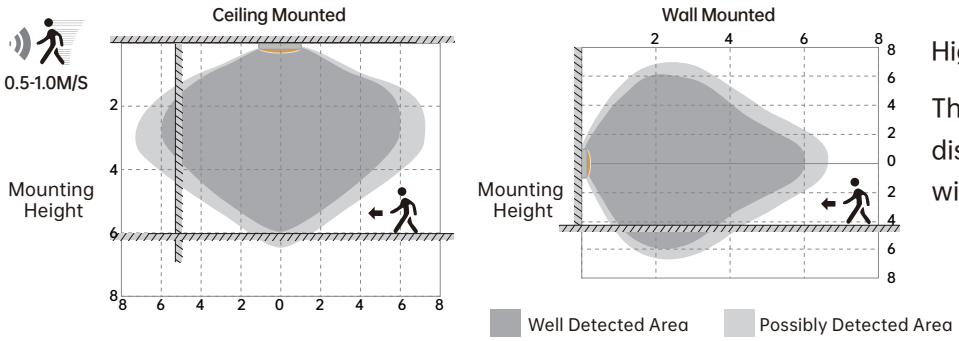
Operating Voltage 120-277VAC,50Hz/60Hz	Detection Area 10%/50%/75%/100%	Connection L; N; PUSH; DALI
Stand-by Power ≤1W	Hold Time 5s/30s/1min/5min/10min/20min/30min	Detection Angle 150° Wall Mounted, 360° Ceiling Mounted
Microwave Frequency 5.8GHz±75MHz	Daylight Threshold 50Lux/80Lux/120Lux/Disable	Mounting Height 3-6m /9.84-19.68ft Ceiling Mounted
Microwave Power <0.3mW	Stand-by period 0s/10s/1min/10min/30min/1h/+∞	Detection Range Max.ø12m/39.36ftCeiling Mounted
IP Rating IP20	Stand-by dimming level 10%/50%	Dimming Long push can dim standby dimming level(10%-50%)
Warranty 5 years	Operating Temperature -35°C~+60C	Control method Master or Slave control each takes 10 lighting fixtures.

Daylight Priority

Function works when standby dimming level preset as 10%, standby period as infinite +∞, and daylight threshold as 120Lux/80Lux/50Lux.

Factory Default Setting: All DIP switches are UP.

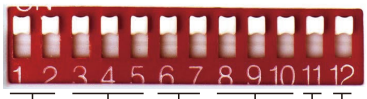
Detection Patterns



Highest mounting height is 6m

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

DIP Switch Setting



Switch UP

Switch DOWN

Master/Slave

●	Master
○	Slave

Define the product as a master or slave; if it's a master sensor, it detects motion and send signals; if it's a slave sensor, it receives signal.

Stand-by dimming level

●	10%
○	50%

The definition of low output in the standby period.

Stand-by period

● ● ●	0s
○ ● ●	10s
● ● ○	1min
○ ○ ●	10min
○ ● ○	30min
● ○ ○	60min
○ ○ ○	+∞

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.

Daylight Threshold

● ●	Disable
● ○	120lux
○ ●	80lux
○ ○	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
● ● ○	60s
○ ○ ●	5min
○ ● ○	10min
● ○ ○	20min
○ ○ ○	30min

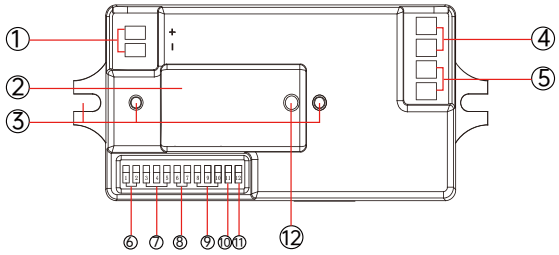
The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

● ●	100%
● ○	75%
○ ●	50%
○ ○	10%

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

Mechanical structure

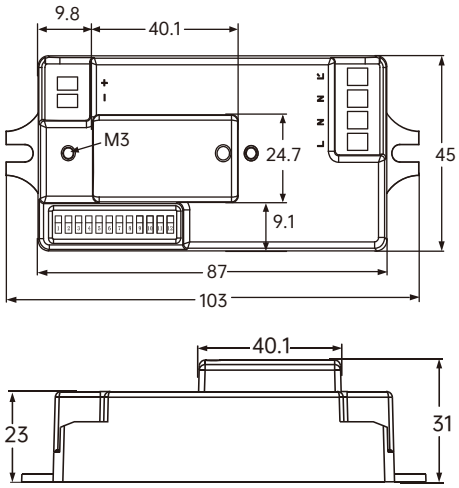


⑤ Input
⑥ Detection Area
⑦ Hold-Time
⑧ Daylight Threshold
⑨ Stand-by period
⑩ Stand-by dimming level
⑪ Master/Slave
⑫ Daylight Sensor

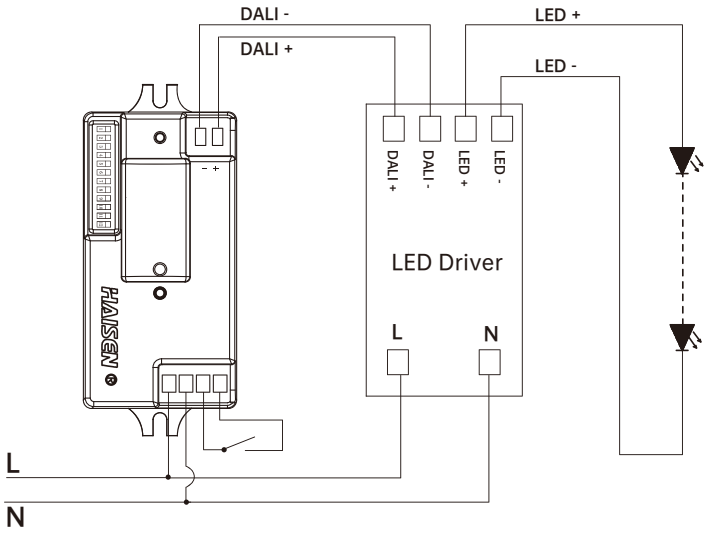
① DALI -/+ ② Microwave Module

③ Installation Hole ④ PUSF +/-

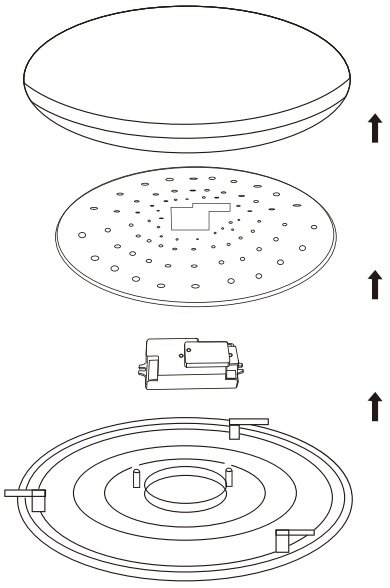
Dimensions Unit:mm



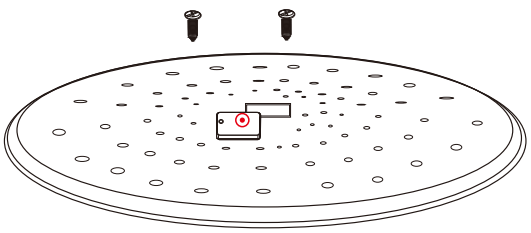
Wiring Diagram



Installation Method

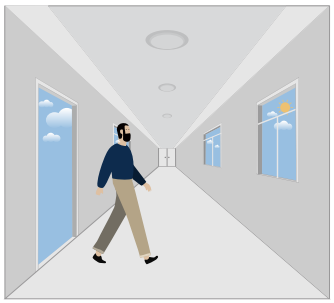


Please ensure no any metal is thielding the sensor antenna.

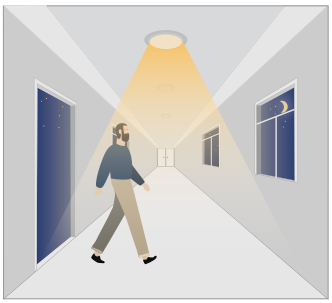


Performance

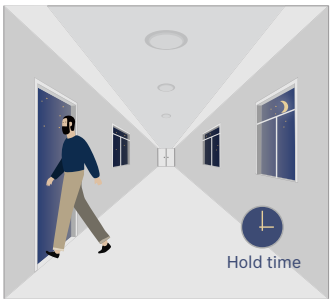
1.Automatically ON/OFF function



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



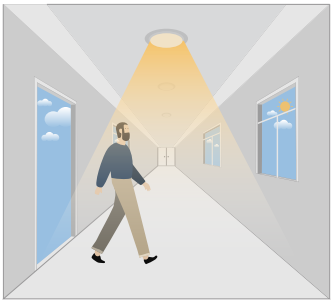
With insufficient daylight, the sensor turns light ON when motion gets detected.



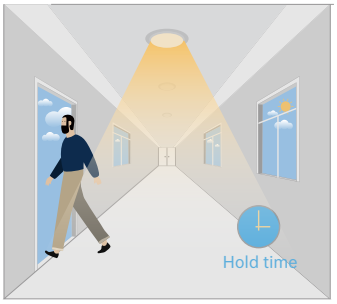
The sensor turns OFF light automatically after the holdtime when there's no motion detected.

2.Daylight Disable

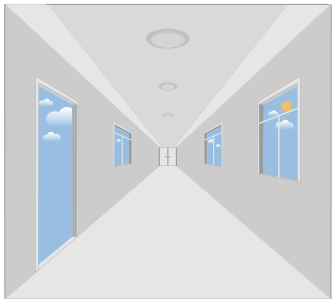
When daylight threshold is preset as "disable", the sensor turns light ON when motion gets detected, and OFF after holdtime.



The sensor turns light ON when motion gets detected.

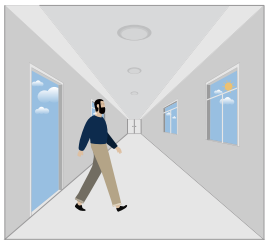


The sensor keeps light ON for holdtime period after motion leaves.

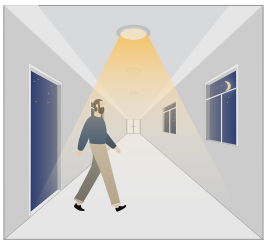


The sensor turns OFF light automatically after the holdtime.

3.Corridor Function, Bi-level Dimmable

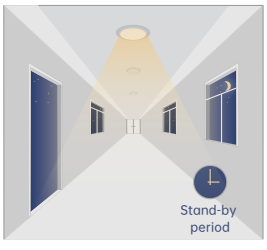


With sufficient daylight, the sensor keeps light OFF even motion gets detected.

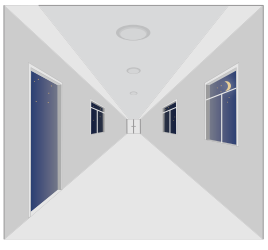


With insufficient daylight,
the sensor turns light ON when motion gets detected.

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®

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 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.

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.