CIELO

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Address: Plantation Rd, Monaghan, Co.Monaghan, Ireland.

LED Ceiling Light

☑ SENSOR

Product Description

1. Enviromental protection and energy saving;
2. Green and eco-friendly lighting source without mercury;
3. Solid state, high shock&vibration resistant;
4. Instant start, no flickering, no humming;
5. Long lifespan, up to 35000 hours;
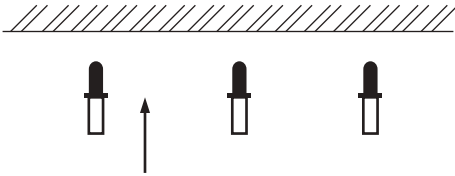6. Adapting isolated constant current power supply,
7. Motion Sensor
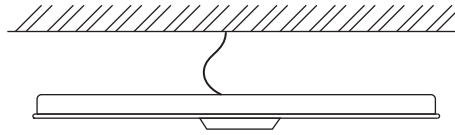
100mm

290mm
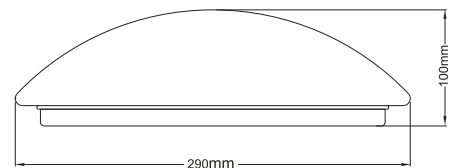
Technical Parameters

Product Name	Cielo LED Ceiling Light Sensor
Part No.	HYCLY15WSENSOR
Power	15W
LED Driver	Certified Driver
Dimension	Φ290*100mm
Colour	2700K-6500K
Cover	White
Chip	Epistar
Beam Angle	120 degree
Certification	CE, IP20
Lamp life	35,000 hours
Warranty	3 years
Input Voltage	AC100-240V
Lumens	1350lm

3YR WARRANTY

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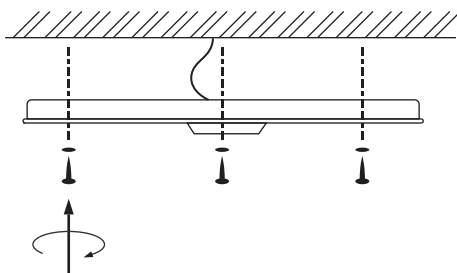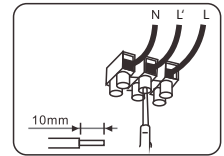Address: Plantation Rd, Monaghan, Co.Monaghan, Ireland.
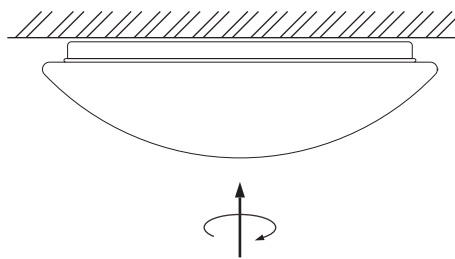
Installation

1. Drill 3 holes according the ceiling light instalation hole, then put the plug in.

2. Connect the wire

10mm

3. Install the ceiling light back plate

4. Install the ceiling light cover

Sensor DIM LED Driver

Introduction

- Integration of microwave motion sensor, daylight sensor and LED power supply.

- Automatic switching and dimming based on motion and light level.

- Constant current can be set via DIP switch.

- Compact size makes the drivers suitable to fix within most LED ceiling lights.

- Detection area, time delay and daylight threshold can be precisely set via DIP switch.

Sensor DIM LED drivers, originally pioneered by Merrytek, are innovative products integrated with HF motion detector, daylight sensor and LED power supply.

The products supply a simple energy-saving solution for LED ceiling lights. As all control parts are integrated in a same housing, it is very easy to assemble and save labor cost.

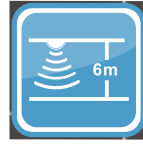Compact size makes the drivers easy to be installed in luminaires and get more simple lighting structure.

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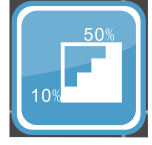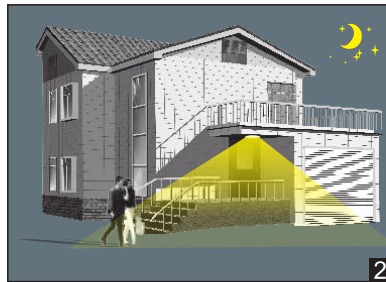|					
Max.8M	Light Sensor	Hold Time 5s~30min	Mounting Height 6m Max.	Automatic On/off	Automatic Dimming

Optional Function

ON-OFF Function

The products provide ON-OFF and steps dimming function for LED lighting, users can select the right function according to different applications.

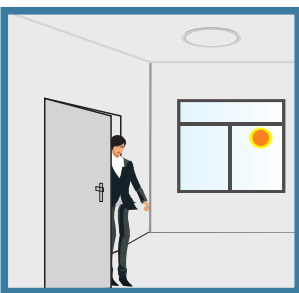With sufficient ambient light, the sensor does not switch on the lamp.

With insufficient ambient light, the sensor switches on the lamp when motion is detected.
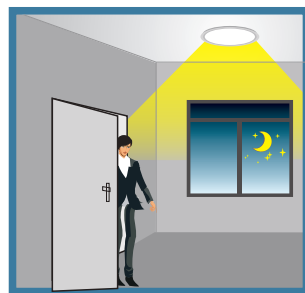
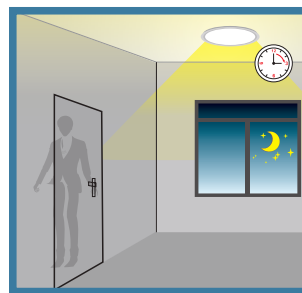After hold time, the lamp gradually dims down if no motion detected.
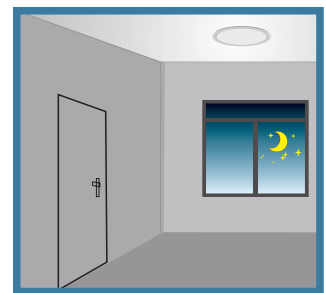
3-step dimming function

With sufficient ambient light, the sensor does not switch on the lamp.

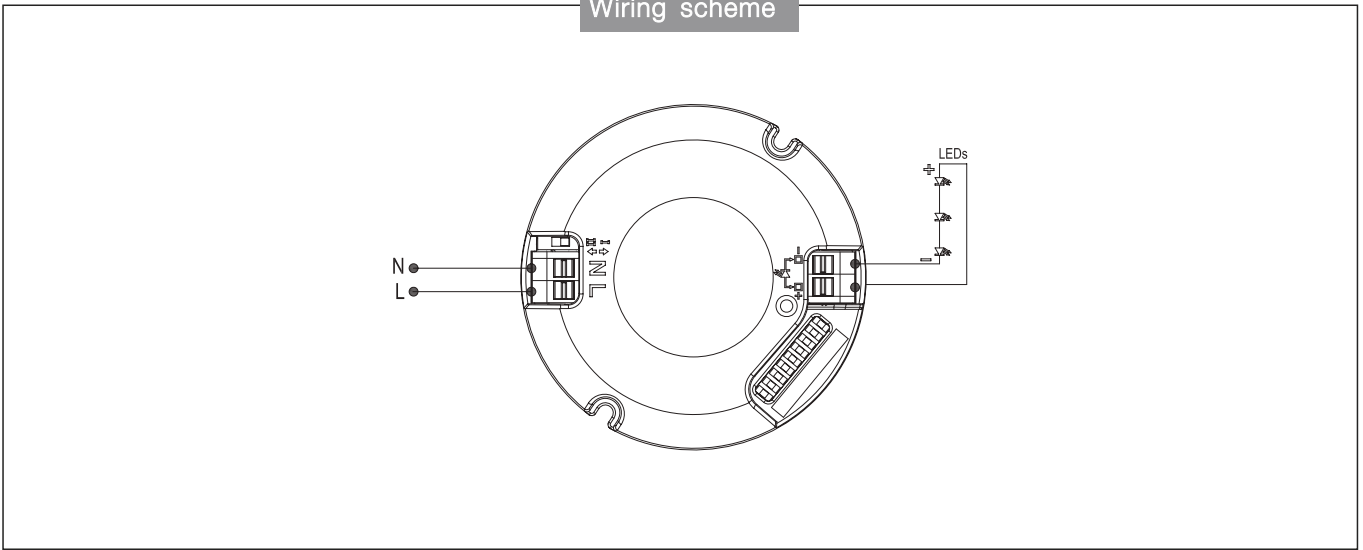With insufficient ambient light, the sensor switches on the lamp when motion is detected.

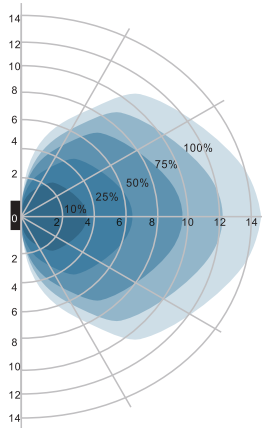After hold time, the sensor dims the lamp at a low light level if no new motion trigger.

After stand-by period, the sensor switches off the lamp if no motion is detected in its detection zone.

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Wiring scheme

N
L

LEDs

Detection Pattern

14
12
10
8
6
4
2
0

100%
75%
50%
25%
10%

2 4 6 8 10 12 14

2
4
6
8
10
12
14

Wall mounting pattern (Unit: m)
Suggested installation height: 1-1.8m

100%
75%
50%
25%
10%

8 6 4 2 2 4 6 8
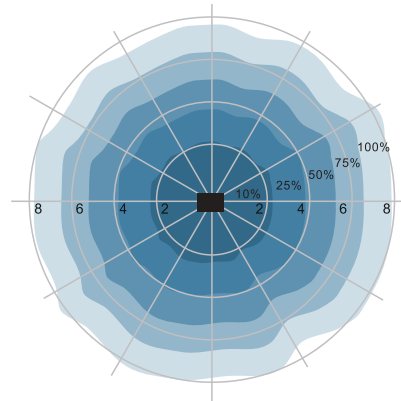
Ceiling mounting pattern (Unit: m)
Suggested installation height: 2.5-6m

Technical Parameters

AC input
Current selected DIP switch

Antenna module

Daylight sensor

Adjustable detection area

Hold-time

Daylight threshold

Stand-by period

DC output control

Installation hole

N L

Ø

H

Unit: mm

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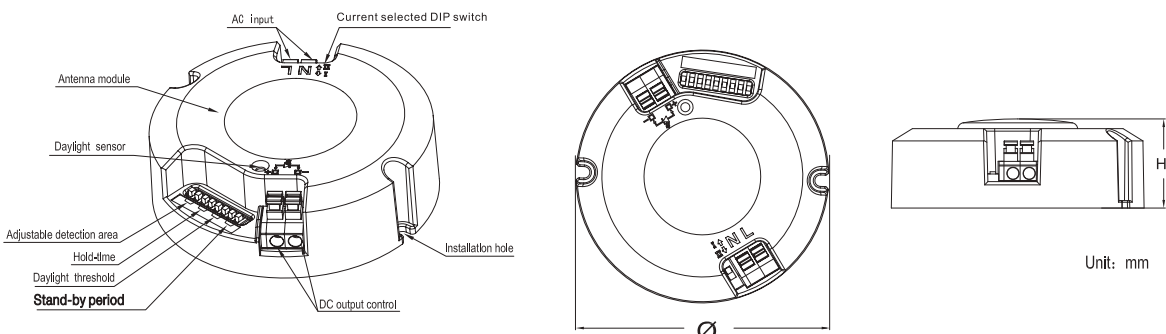
Model NO.	HYCLY15WSENSOR
Operating voltage	220~240Vac, 50/60Hz
Output constant current	300mA/ 350mA, set via DIP switch
Output voltage	28-51Vdc
Efficiency	≥80%
Power factor	≥0.9
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤1W(standby)
Detection zone Max.(D x H)	16m x 6m
Detection sensitivity	10% / 50% / 75% / 100%
Hold time	5s / 90s / 3min / 10min
Corridor function	0s / 30s / 10min / Disable
Daylight sensor	5lux / 15lux / 50Llux / Disable
Stand-by dimming level	10%, can be customized
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150° (Wall installation)
	360° (Ceiling installation)
Working temperature(Ta)	-20℃ ~45℃
Size (ΦxH)	68x28.5mm
IP rating	IP20

Setting

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

	1	2	
I	ON	ON	100%
II	—	ON	75%
III	ON	—	50%
IV	—	—	10%

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

	3	4	
I	ON	ON	5s
II	—	ON	90s
III	ON	—	3min
IV	—	—	10min

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

	5	6	
I	ON	ON	Disable
II	—	ON	50Lux
III	ON	—	15Lux
IV	—	—	5Lux

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.
50lux: twilight operation, 15lux, 5lux: darkness operation only.

	7	8	
I	ON	ON	0s
II	—	ON	30s
III	ON	—	10min
IV	—	—	+∞

Corridor function (Stand-by period)

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to "+∞", the low light is maintained until motion is detected.
When set to "0s", the light will turn off after hold time.

NOTE: Daylight sensor is active only when light totally switch off. That means, if set stand-by period on 'Disable' mode, the daylight sensor function will be not available.