STPSENSOR for STRIP

Model: STPSENSOR

Remote Control (SENSORRC) sold separately

Infrared remote receiver
Detection area
Hold-time
Daylight threshold
Stand-by period
Stand-by dimming level
Buzzer
Sensor antenna
LED indication
Daylight sensor
+ −
SYNC
SYNC
Push
L N
L
Installation hole (4.2mm)

45
4.2
86.5
93.2
102
25.5
28
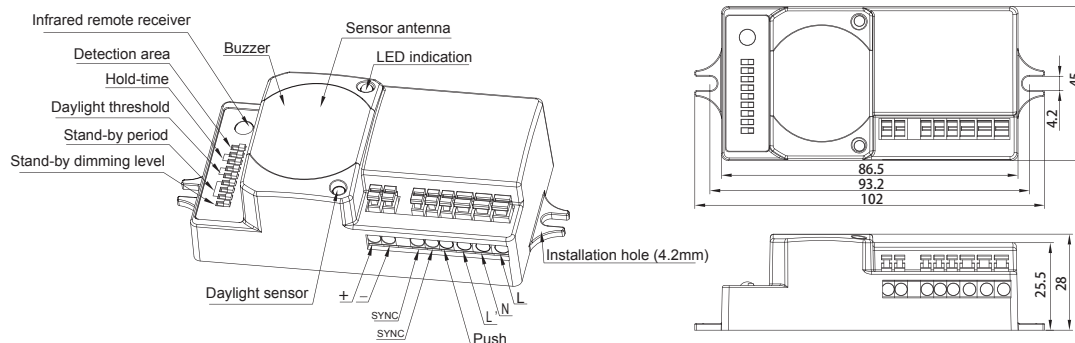
Mechanical structure (mm)

24h Daylight Monitoring

100% Dim Off — sensorDIM™

1–10V dimming

8 hours manual on

Ambient daylight threshold

Detection Pattern

Hold−time 5s~30min

2~50Lux
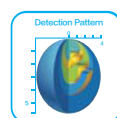
Functions and Options

1 Tri-level Control (Corridor Function)

This motion sensor is built to achieve tri-level control. It offers 3 levels of light: 100%-->dimmed light-->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period.

2 8H Manual on Mode

Quickly turn the power supply off/on three times within 3 seconds. The light will be 100% on for 8 hours and then go back to sensor mode automatically after 8 hours.

Note: the 8H manual on mode can be cancelled by turning off/on the power supply one time within 1 second.

3 Ambient Daylight Threshold

Quickly turn the power supply off/on two times within 2 seconds. The sensor will set the ambient lux level as the new threshold. Both the settings on the DIP switch and the learned ambient lux threshold can overwrite each other. The last action will be the new setting.

4 Daylight Monitoring Function

A built-in daylight sensor is designed to provide "smart photocell" function. This function can only be activated when the stand-by period is set to "+∞".

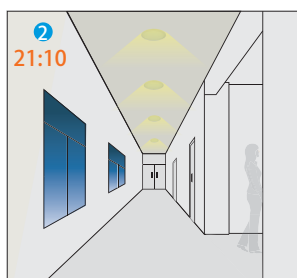**Settings on this demonstration:**

Hold-time: 10min

Daylight threshold: 50lux

Stand-by dimming level: 10%

Stand-by period:+∞

❶ 21:00

❷ 21:10

❸ 21:40

❶ ⇄ ❸ goes in cycle during the night ⋯
100% on when movement detected, and dims to10% in long absence.

The light switches on at 100% when there is movement detected.

Light dims to stand-by level after the hold-time (no motion).

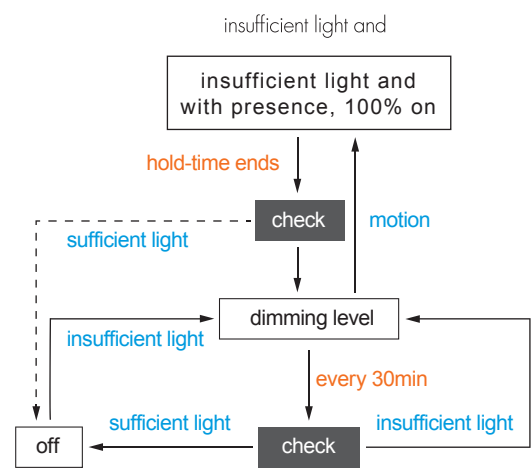Light stays on dimming level during the night.
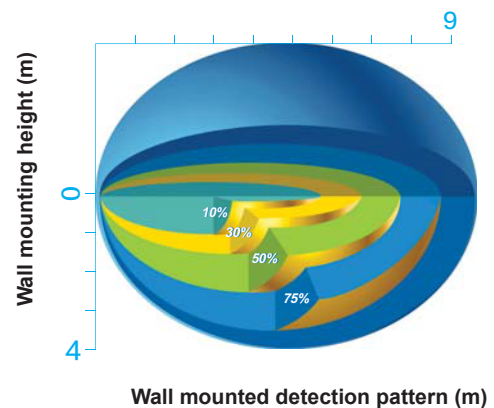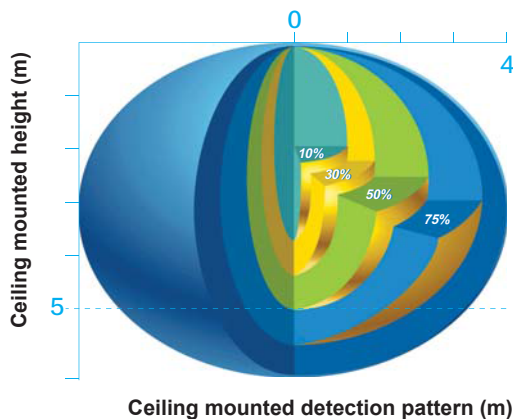
④ 08:10

⑤ 17:40
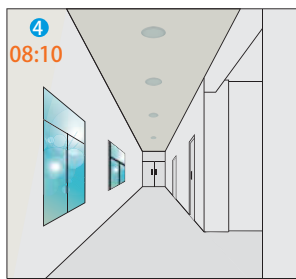
At dawn, light turns off completely when natural light reaches above the threshold.

Light dims to stand-by level automatically when natural light is insufficient.

insufficient light and

insufficient light and with presence, 100% on

hold-time ends → check

sufficient light

motion

dimming level

insufficient light

every 30min

off ← sufficient light ← check → insufficient light

Detection Pattern

Ceiling mounted detection pattern (m)

Wall mounted detection pattern (m)

Settings

❶ Detection area

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

	1	
I	●	100%
II	○	50%

I – 100%
II – 50%

❷ Hold-time

Hold-time means the time period to keep the lamp on 100%, after all motion has ceased (detection area vacated).

	2	3	
I	●	●	5s
II	●	○	3min
III	○	●	10min
IV	○	○	30min

I – 5s
II – 3min
III – 10min
IV – 30min

❸ Daylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.

	4	5	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2Lux

I – Disable
II – 50Lux
III – 10Lux
IV – 2Lux

❹ Stand-by period (corridor function)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

Note: "0s" means on/off control;

"+∞" means bi-level dimming control, fixture never switches off when daylight sensor is disabled.

	6	7	8	
I	●	●	●	0s
II	●	●	○	10s
III	●	○	●	1min
IV	●	○	○	5min
V	○	●	●	10min
VI	○	●	○	30min
VII	○	○	●	1h
VIII	○	○	○	+∞

I – 0s
II – 10s
III – 1min
IV – 5min
V – 10min
VI – 30min
VII – 1h
VIII – +∞

❺ Stand-by dimming level

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

|	9	
I	●	10%
II	○	30%

I – 10%
II – 30%

Factory Settings

Detection area: 100%, maximum detection range
Hold-time: 3min, once a motion is detected the luminaire will go to 100% light output for 3min
Daylight sensor: Disable
Stand-by period: +∞, the luminaire will stay on at the stand-by dimming level even when no motion is detected (stairwell application)
Stand-by dimming level: 30%, the luminaire will stay on at 30% of the light output even when no motion is detected (stairwell application)
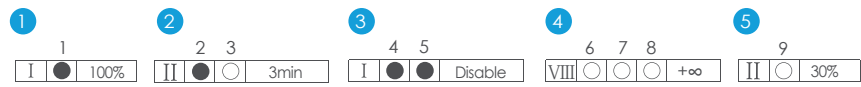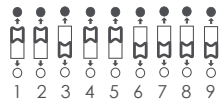
Technical Data

Operating voltage	120-277VAC
Switched power (capacitive load)	400W@120VAC; 1000W@277VAC
Stand-by power	<1W
Detection area	50% /100% (100% /50% /10% on RC)
Hold-time	5s /3min /10min /30min (TEST 2s /30s /1min /5min /10min /30min on RC)
Stand-by period	0s /10s /1min /5min /10min /30min /1h/+
Stand-by dimming level	10% /30% (10% /20% /30% on RC) ∞ (0s /10s / 1min / 10min/ 30min /+∞ on RC)
Daylight threshold	2~50Lux, disable (2Lux /10Lux /50Lux /Lux disable on RC)
Sensor principle	High Frequency (microwave)
Microwave frequency	5.8GHz+/-75MHz
Microwave power	<0.2mW
Detection range	Max. (ØxH): 8m x 5m
Detection angle	30° ~150°
Mounting height	Max. 5m
Operating temperature	-20°C ~ +60°C
IP rating	IP20
Certificate	cUL Listed

ON/OFF — Permanent ON/OFF function

Press the "ON/OFF" button, the light goes to permanent on or permanent off mode, sensor is disabled.

* Press "Auto Mode", "RESET" or "Scene mode" buttons to quit from this mode.

Auto Mode — Sensor mode

Press "Auto Mode" button, the sensor starts to work and all settings remain the same as the latest status before the light was switched on/off.

RESET — Reset function

Press "RESET" button, all settings go back to the value of DIP switch settings.

Dim +/-

Long press "Dim +" or "Dim −" to adjust the light brightness during hold-time. " + " means dimming up, " − " means dimming down.

TEST 2S — Test mode

The button "Test 2s" is for testing purpose only. The sensor goes to test mode (hold-time is 2s) automatically after commissoning, meanwhile the stand-by period and daylight sensor are disabled.

* This mode can be ended by pressing "reset", or any button of "scene mode" and   "hold time". The sensor setting is changed accordingly.

SENSORRC

Note: the buzzer beeps one time when RC receives signal successfully.

Power 100% / Power 80% — Power output

Press these buttons to select full output level. 80% button allows for energy saving and reverse dimming to compensate for LED lumen depreciation over time. Supports fluorescent 10,000 hr initial burn-in.

Ambient daylight threshold

Press this button, the latest surrounding lux value overwrites previous lux value learned, and is set as the daylight threshold.
This feature enables the fixture to function well in any real application circumstance.

Lux Disable — Lux disable

Press this button to disable the daylight sensor for threshold control. When motion is detected, the fixture will always turn ON, regardless of ambient light level.

M/A — Manual override / absence detection

By pressing this button, the sensor goes to manual override or absence detection function.
Note: The buzzer beeps twice if it's manual override function, and beeps once if shifts to absence detection function.

Scene mode

There are four scene modes fixed programs built-into the remote control. Select as appropriate. Each scene can be modified the remote. The sensor will remember updates even after power outage. The green "RESET" button on remote reverts to original defaults.

Scene options	Detection range	Hold-time	Stand-by period	Stand-by dimming level	Daylight sensor
SC1	100%	1min	10min	10%	2Lux
SC2	100%	5min	10min	10%	2Lux
SC3	100%	10min	30min	10%	10Lux
SC4	100%	10min	+∞	10%	50Lux

Note: end-user can adjust the settings by pressing buttons of detection range/hold-time/stand-by period/stand-by dimming level/daylight sensor. The lastest setting stays in validity.

Detection range

Select as appropriate to adjust/reduce sensor sensitivity, detection range from 100%.
Typical 100% sensor motion detection range is 9m. Please refer to detection pattern below.
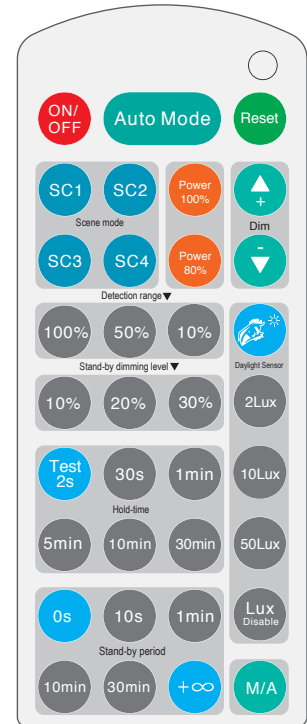
Daylight sensor

Select daylight sensor threshold level at MIN 2 LUX or MIN 20LUX. Ambient light must below this MIN LUX threshold for sensor to turn fixture ON. Press Blue button to sample ambient light. Press Lux Disable button for fixture to always turn On when motion is detected.

Hold-time

Hold-time is time fixture remains at programmed full power level AFTER no motion is detected.

Stand-by dimming level

Press the buttons of "stand-by dimming level" to set the stand-by dimming level at 10% / 20% / 30%.

Stand-by period (tri-level control)

Press the buttons of "stand-by period" to set stand-by period at 0s / 10s / 1min / 10min / 30min / +∞.

Note: "0s" means on/off control; "+∞" means bi-level control, light never switches off when daylight sensor is disabled.