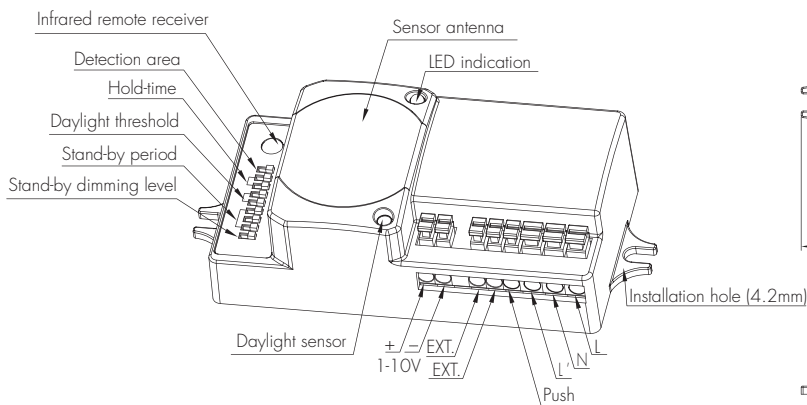
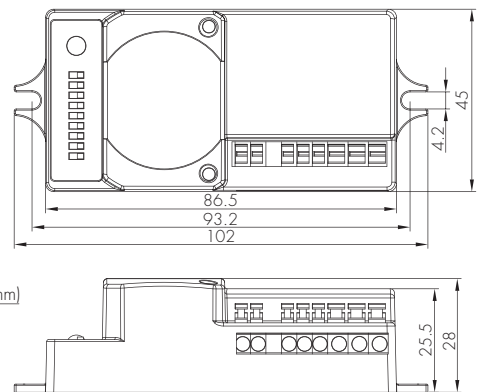


Reinforced Premium Version Tri-level Dimming Control

Model: HC419VRC/R with HRC-05



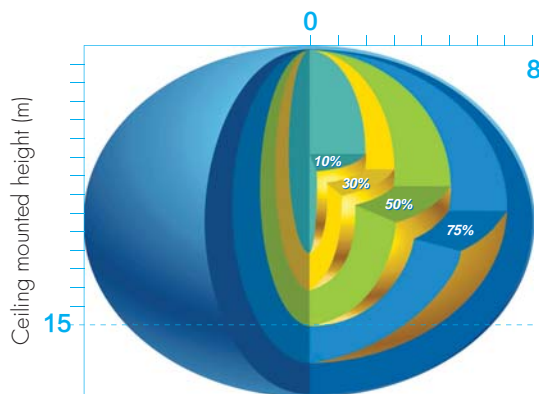
Model: HC419VRC/R



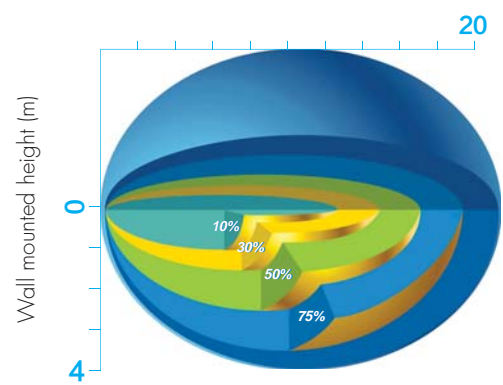
Mechanical structure (mm)



Detection Pattern



Ceiling mounted detection pattern (m)

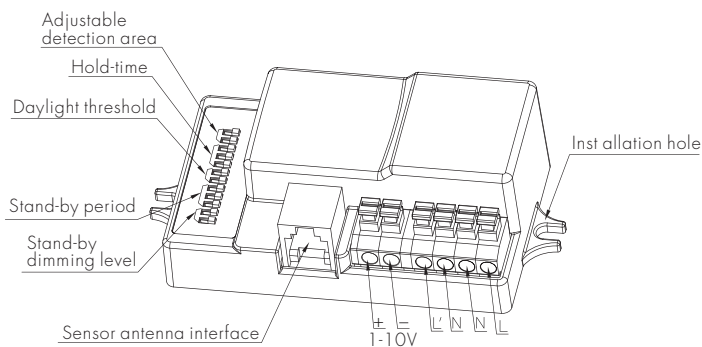


Wall mounted detection pattern (m)

This model has exactly the same function and technical specification as model HC419VRC, for details, please refer to page 32.

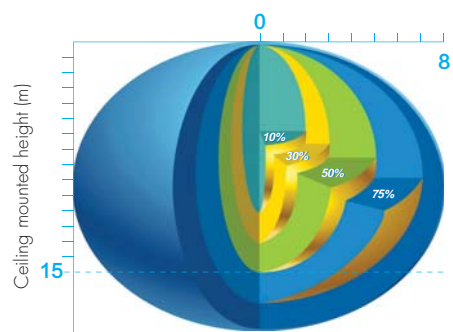
Reinforced Detached Version Tri-level Dimming Control

Model: HC403VRC-KD
with HRC-05



Model: HC403VRC-KD

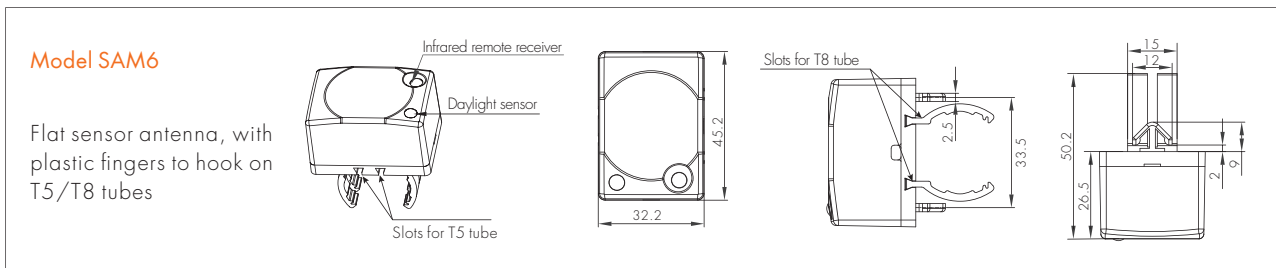
Detection Pattern



Ceiling mounted detection pattern (m)



Detached sensor antenna module:



This sensor is particularly designed for below applications:

1. High bay, which is usually installed at a much higher place such as warehouse and need a much larger detection range.
2. Office light, most of which have aluminium louvers and is impossible for microwave sensors to go through.



For high bay

Thanks to SAM6 and the remote control, the sensor is enable to function well with high bay in much higher places, say up to 15m.



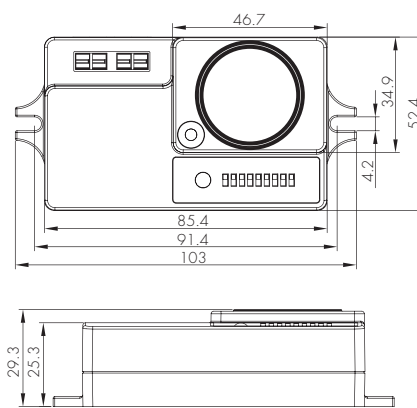
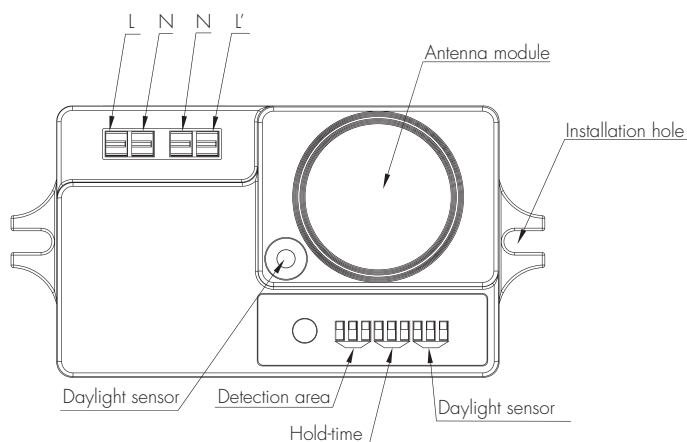
For linear T5, T8, TC-L lamps

Use the detached sensor antenna head grip on the T5 and T8 tube, and put the sensor mainbody behind the metal louver, together with the ballast or driver.

This model has exactly the same function and technical specification as model HC403VRC-KD, for details, please refer to page 38.

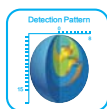
Reinforced Standard Version On/off Control

Model: HC401SRC/R with HRC-03



Model: HC401SRC/R

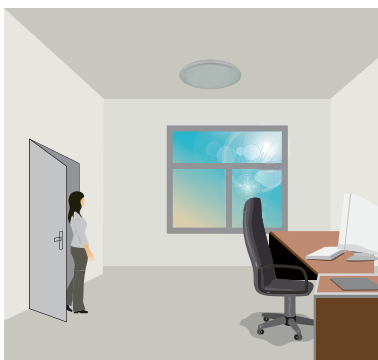
Mechanical structure (mm)



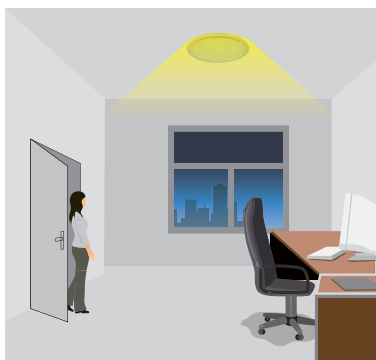
Functions and Options

1 On-off Control

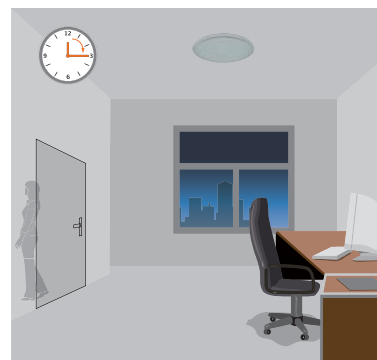
This sensor is a motion switch, which turns on the light on detection of people movement, and turns off after a pre-selected hold-time when there is no people around. A daylight sensor is also built-in to prevent the light switching on when there is sufficient natural light.



With sufficient natural light, the light does not switch on when presence detected.

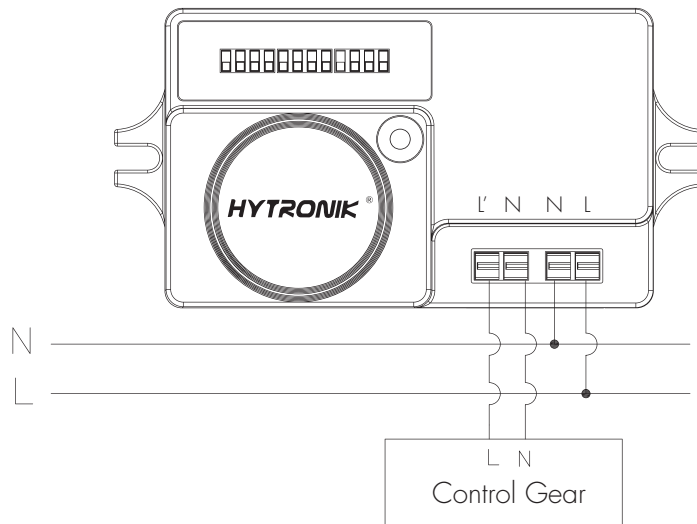


With insufficient natural light, the sensor switches on the light automatically when person enters the room.



The sensor switches off the light automatically after the hold-time when there is no motion detected.

Wiring Diagram



2 8H Manual on Mode for LED Lamp

Rapidly turn off/on the power supply three times within 3 seconds, the light will be 100% on for 8 hours, and then goes to sensor mode automatically after 8 hours. Useful when sensor function is not needed in special occasion.

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

3 Ambient Daylight Threshold

Switch the power supply to the sensor two times within 2 seconds, the sensor can set the ambient lux level as the new threshold. Both the settings on DIP switch and the ambient lux threshold learned can overwrite each other.

This feature enables the daylight sensor to be commissioned to the environment in which it is installed. The latest action controls. (More details of the operation procedure please refer to user manual).

4 Zero-cross Relay Operation

Designed in the software, sensor switches on/off the load right at the zero-cross point, to ensure the in-rush current is minimised, enabling the maximum lifetime of the relay.

Settings (Remote Control HRC-03)



Permanent ON/OFF function

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

* 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 last status before the light was switched on/off.

RESET

Reset function

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

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 commissioning, 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.



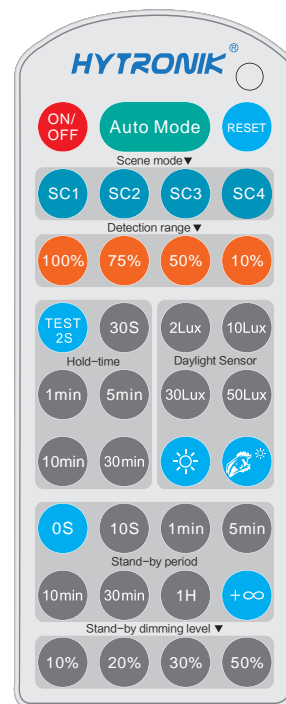
Daylight sensor disable

Press this button, the built-in daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is.



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.



HRC-03

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

Scene mode

There are 4 scene modes fixed program built-in the remote control to choose for different applications:

Scene options	Detection range	Hold-time	Daylight sensor
SC1	100%	1min	2Lux
SC2	50%	5min	10Lux
SC3	100%	10min	10Lux
SC4	100%	30min	50Lux

Note: End-user can adjust the settings by pressing buttons of detection range/hold-time/daylight sensor. The last setting stays in validity.

Detection range

Press the buttons of "detection range" to set detection range at 100% / 75% / 50% / 10%.

Hold-time

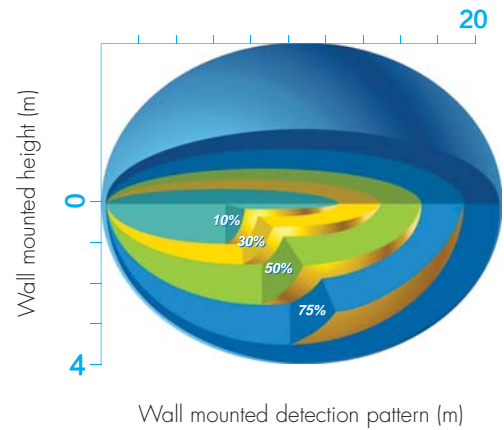
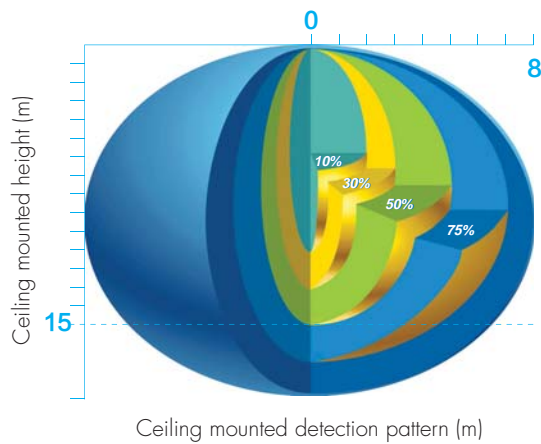
Press the buttons of "hold-time" to set hold-time at 30s / 1min / 5min / 10min / 30min .

Daylight sensor

Press the buttons of "daylight sensor" to set daylight threshold at 2Lux / 10Lux / 30Lux / 50Lux.

Note: buttons of "stand-by period" and "stand-by dimming level" are disabled.

Detection Pattern



Settings

1 Detection area

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

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	●	○	●	50%
IV	●	●	○	25%
V	○	○	○	10%



- I - 100%
- II - 75%
- III - 50%
- IV - 25%
- V - 10%

2 Hold-time

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

	4	5	6	
I	●	●	●	5s
II	○	●	●	30s
III	●	○	●	1min
IV	○	○	●	5min
V	●	●	○	10min
VI	○	○	○	30min



- I - 5s
- II - 30s
- III - 1min
- IV - 5min
- V - 10min
- VI - 30min

3 Daylight sensor

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

"Daylight" : The lamp works always, even during daylight.
 "Twilight" : The lamp works only in twilight and in darkness.
 "Darkness" : The lamp works only in darkness.

	7	8	9	
I	●	●	●	Disable
II	○	●	●	50 Lux
III	●	○	●	30 Lux
IV	●	●	○	10 Lux
V	○	○	○	2 Lux



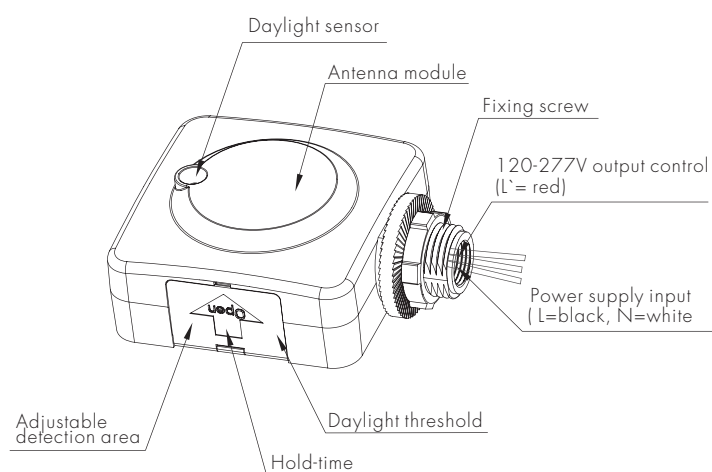
- I - Disabled
- II - 50 Lux
- III - 30 Lux
- IV - 10 Lux
- V - 2 Lux

Technical Data

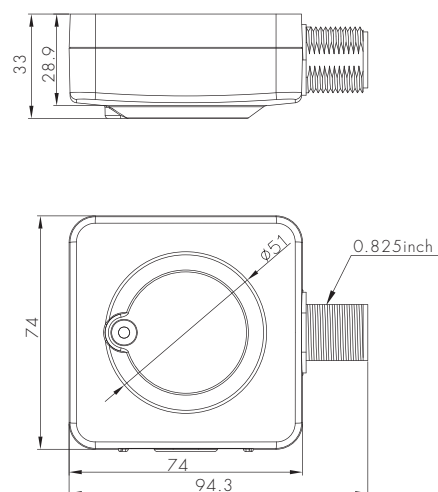
Operating voltage	120-277VAC, 60Hz
Switched power(capacitive)	400W @120VAC , 800W @240VAC , 1000W@277VAC
Stand-by power	Approx. 0.5W
Detection area	10%/25%/50%/75%/100% (10%/50%/75%/100% on RC)
Hold-time	5s/30s/1min/5min/10min/30min (TEST 2s/30s/1min/5min/10min/30min on RC)
Daylight threshold	2-50Lux/Disable (2Lux / 10Lux / 30Lux / 50Lux /Lux disable on RC)
Microwave frequency	5.8GHz+/- 75MHz
Microwave power	<1mW
Detection range	Max.(ØxH) 16m x 15m
Detection angle	30~150 C
Mounting height	Max. 10m
Operating temperature	-20 C ~+60 C
IP rating	IP 20
Certificate	Semko, CB, EMC, CE, R&TTE, SAA

Reinforced Attachable Version On/off Control

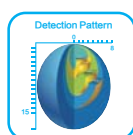
Model: HC430S/R



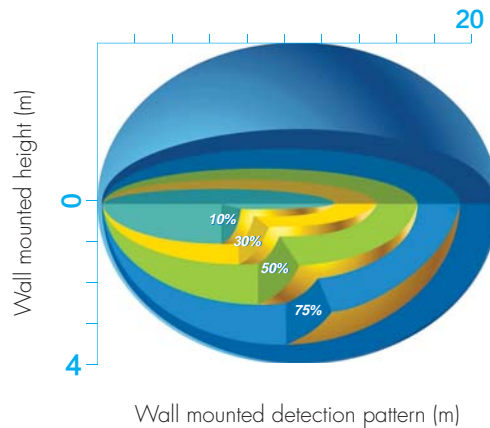
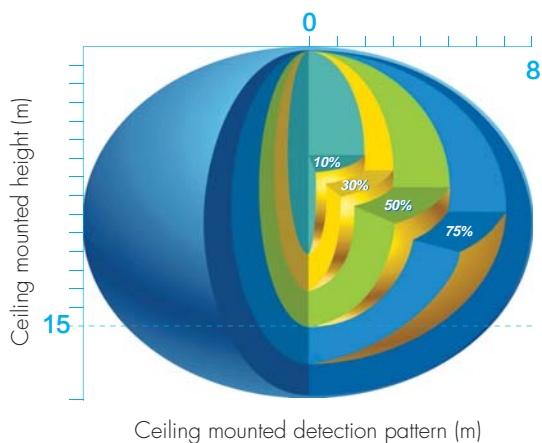
Model: HC430S/R



Mechanical structure (mm)



Detection Pattern



This model has exactly the same function and technical specification as model HC030S, for details, please refer to page 29.