Hynall®
Intelligent Control

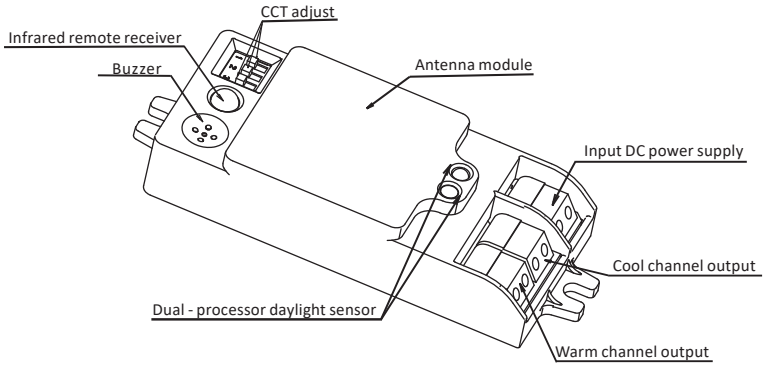
Microwave motion sensor

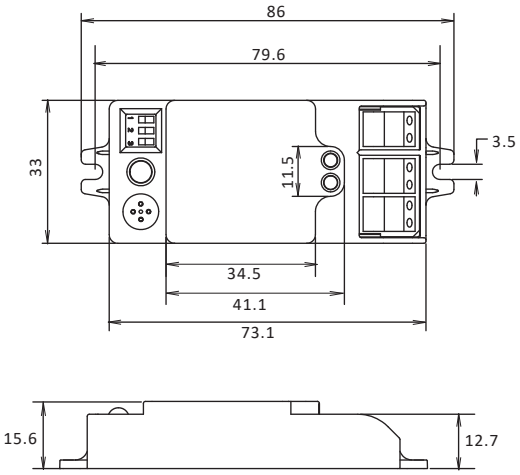
Tunable White
+
Remote Controllable

MODEL: HNS117

Tunable white motion sensor with 0~10V DC or PWM output

tri-level dimming & tunable white control





Features

- Input voltage: 12 / 24V DC.
- Input current: ≥25mA.
- *Two channels output 0~10V / PWM signal, achieve color temperature adjustments.
- Super compact, flexible to be integrated into any suitable fixtures.
- Easy access by DIP switch to shift between cool, white and warm.
- Dual-processor Technology,real Lux Off & Daylight monitoring function for built-in application.
- IR remote commissioning, easy setting and user friendly.
- Detection range up to 12m in diameter.
- Mounting height: 3-6m.
- Operation temperature: -20℃ ~ + 70℃.
- RoHS compliant.

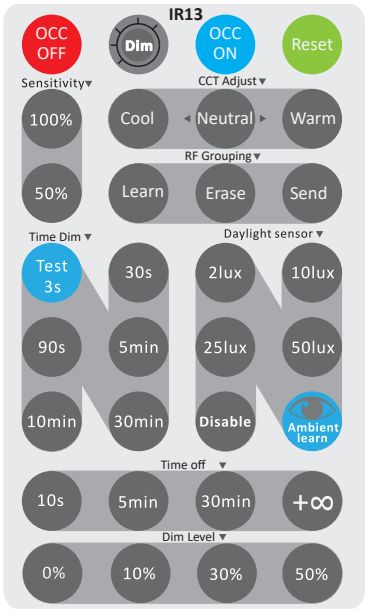
*Source current / Sink current: Max. 20mA; 0-10V leads can not be short-circuit.

Settings(Remote control IR13)

OCC OFF function

Press “OCC OFF” button, the motion sensor will be disabled.

*press “OCC ON” , “Reset” or “Ambient” to re-activate the motion sensor.



Dim

Press “Dim” button to automatically dim up or down the light brighness during hold-time from 10% to 100%. Another press to lock it down when desired brightness is achieved.

*After desired brightness is locked down, if user wants to dim again reversely, just press the “Dim” button again and then lock down the new brightness again.

OCC ON function

Press “OCC ON” button, the sensor starts to work and all settings remain the same as the latest status before the light was switched on / off.

Reset function

Press “Reset” button, all sensor settings go back to factory default settings.

* Factory default setting:

Sensitivity=100%
Daylight sensor=disable
Hold time=90s
Twilight time=5min
Twilight level=10%
CCT=Neutral

Ambient learn

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

Note:

- The buzzer short beeps (~0.5s) ONCE when sensor successfully receives RC signal after pressing any buttons except for“Ambient learn”.
- The buzzer short beeps (~0.5s) TWICE to start learning ambient lux after pressing “Ambient learn” Then followed by a long beep (~1s) to indicate the success of ambient learning.
- When“twilight level”set at 0%, it becomes ON/OFF control.
- Function zone of “RF Grouping” is invalid for this model.

Test mode

“Test mode”is for testing purpose only, for users to check the functionality and choose the desired detection range. The sensor goes to test mode automatically after pressing this button.

Users can quit this mode by pressing “ON/OFF”, “Reset”, or any button of “Hold time”. The sensor settings are changed accordingly .

*Test mode defaulted settings--
Daylight sensor=disable
Hold time=3s
Twilight time=N/A
Twilight level=N/A

In this mode, when used for on/off control, after motion detected, sensor enters into a cycle of 3s on and 2s off.

In this mode, when used for tri-level dimming control, after motion detected, sensor enters into a cycle of 3s on and 2s off (0.5s soft off + 1.5s off).

CCT Adjust ▾

Cool: Long press to adjust the color temperature towards Cool , release to stop and lock down current color temperature.

Warm: Long press to adjust the color temperature towards Warm , release to stop and lock down current color temperature.

Neutral: Press “Neutral” button, the color temperature will adjust to 50% cool + 50% warm.

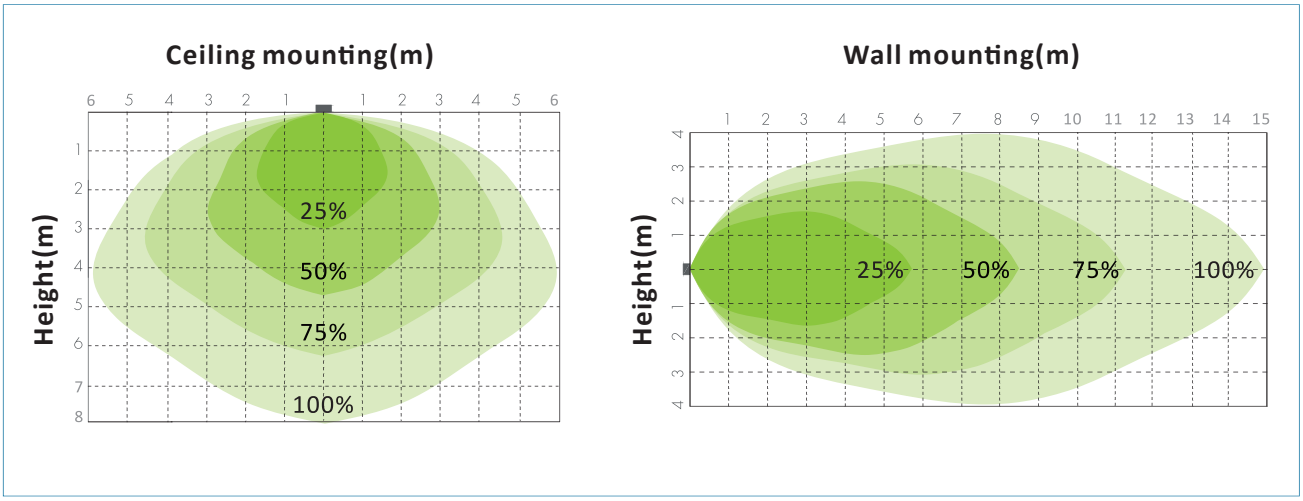
CCT quick selection (DIP switch)

*DIP switch + IR Remote control 2 channels CCT setting.
Automatically override each other upon the latest operation.

1	2	3	CCT
●	○	○	Cool
○	●	○	Neutral
○	○	●	Warm

ON
OFF

Detection pattern



Daylight monitoring function

Utilizing the Dual-processor technology, this sensor can tell the difference of natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even without movements) when the ambient light is below target value, and then switch off automatically whenever the artificial light is not required (ambient light is bright enough).

This is the REAL & INTELLIGENT daylight monitoring sensor for built-in installation.

Note: Lux-Off sampling time--30s; Lux-On sampling time--10s.

Lux-On function takes effect only when standby dimming period set at +∞.