

PRODUCT SPECIFICATIONS

MODEL NO	HP401V-01 HP401V-02
INPUT	100-347VAC
DESCRIPTION	INDOOR STANDALONE AC INPUT PIR SENSOR
VERSION	V2.0

INDOOR STANDALONE AC INPUT PIR SENSOR

Features & Benefits

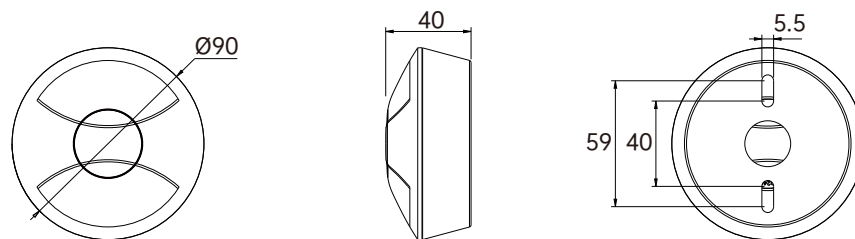


HP401V

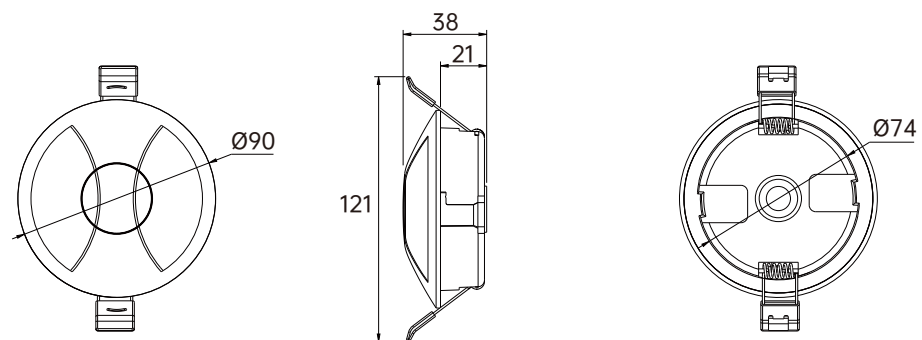
- Standalone Indoor PIR Sensor
- With Photocell Function
- Wide Range 100-347V Input
- Easy Setting With LCD Screen Display Remote Control
- Exquisite & Unique Design, Supporting Ceiling & Recessed Mounting

Dimensions Unit:mm

HP401V-01



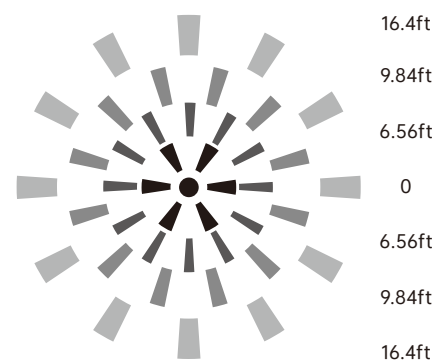
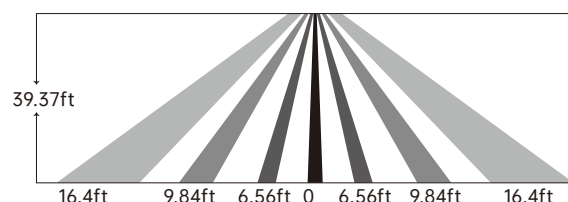
HP401V-02



Detection Coverage

Mounting Height
12m/39ft Max.

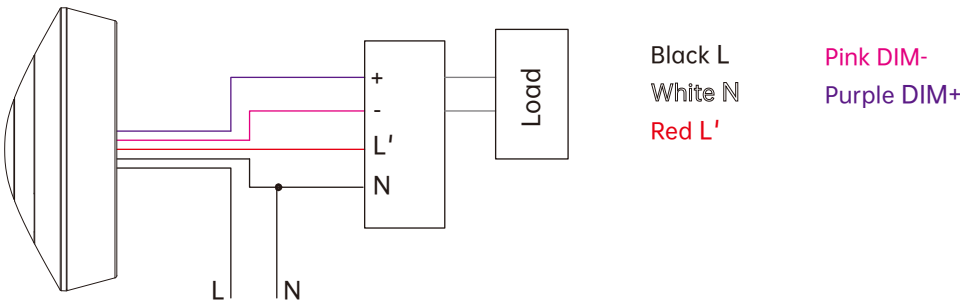
Detection Distance
Radius 2-5m/6-16ft



Parameters

PIR INFORMATION	Infrared Wavelength	5-14um
	Output Signal Peak	≥3500mV
	PIR Sensitivity	3200V/W
	Installation Height	12m/39ft Max.
	Detection Distance	Radius:2-5m/6-16ft
	Warranty	3 Years
	Warm-up Period	50S
	Detection Angle	Fresnel Lens<120°
SENSOR PARAMETER	Detection Area	25%/50%/75%/100%
	Holdtime	5s/30s/1min/3min/5min/10min/20min/30min
	Daylight Threshold	Disable/ 2lux/ 10lux/ 30lux/ 50lux/ 80lux/ 120lux
	Standby Dimming Level	10%/20%/30%/50%
	Standby Period	0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/25min/30min/45min/60min/+∞
	Control	DIM 0-10V
	Power Capacity(Max)	100V: 3A/400W(Control Gear) 800W (Ballast or Incandescent) 277V: 3A/800W(Control Gear) 1200W(Ballast or Incandescent) 347V: 1.2A/400W(Control Gear) 800W (Ballast or Incandescent)
	Dusk-Dawn Sensing/Photocell	1. Automatically ON: When ambient brightness is darker than preset-level and motion is detected, it will turn ON the light 2. Automatically OFF: When ambient brightness is about 150lux higher than preset-level or holdtime runs out, it will turn OFF the light 3. Please refer to Page 4 for additional notes.
INPUT	Voltage Range	100-347VAC
OUTPUT	Programming	Remote Control: HD05R
	Connection	Black Lin White N Red Lout Purple DIM+ Pink DIM-
	Stand-by Power	<1W
ENVIRONMENT	Working Temp	-20°C~+60°C
	Storage Temp	-40°C~+80°C Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP20

Wiring Diagram

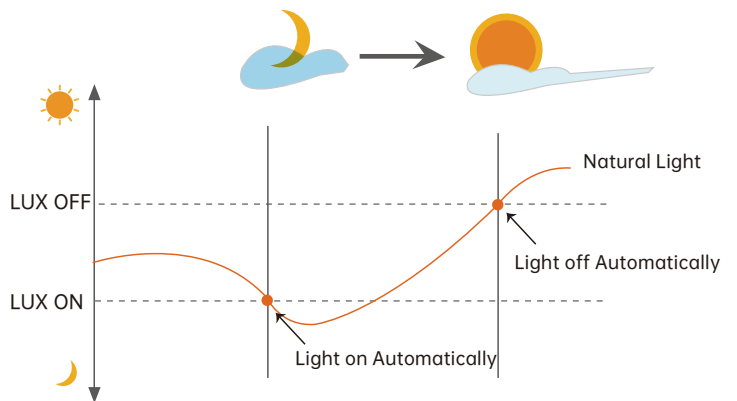


Performance

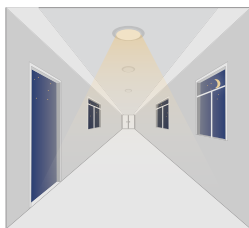
Dusk/Dawn sensor:

When ambient brightness is darker than preset-level and motion is detected, the light will turn on. When ambient brightness is about 150lux higher than preset-level or holdtime runs out, it will turn the light off.

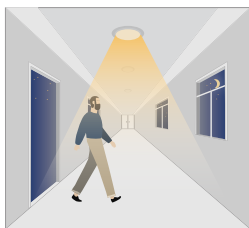
* Daylight function works by checking for natural infrared light. Avoid exposing the sensor to direct LED light or light reflection when using it in smaller application environments/rooms, in case of possible deviation results.



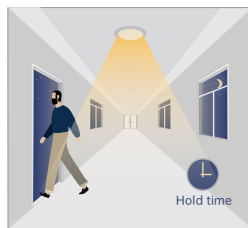
1. With Dusk/Dawn Function



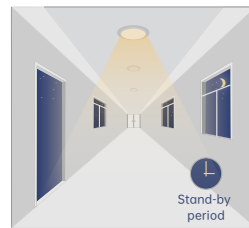
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or presence.



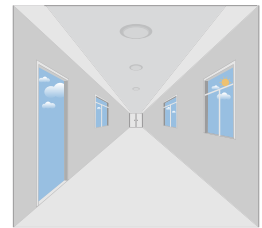
When sensor detects motion or presence it will bring the light level up to 100%.



After motion is no longer detected, fixture remains at 100% for hold time.

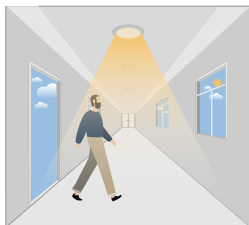


After pre-set hold time period it will dim the light to standby dimming level again and maintain it.

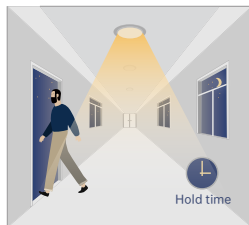


With sufficient ambient brightness, sensor will turn the light off automatically.

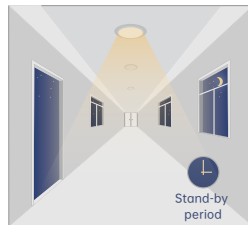
2. Without Daylight Disabled



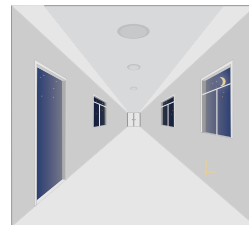
Sensor turns the light on when motion is detected.



Sensor maintains a hold time period after motion is no longer detected.

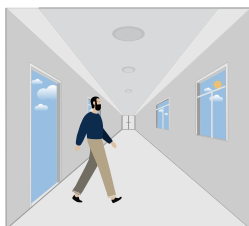


Sensor dims light to standby dimming level after hold time if there is still no motion.

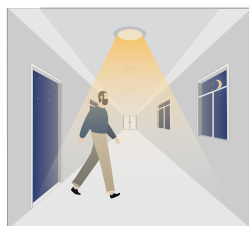


Sensor turns the light off after standby period.

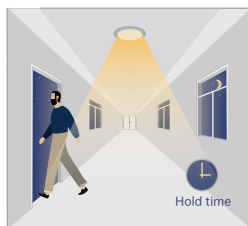
3. With Daylight Threshold



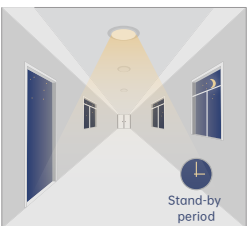
With sufficient daylight, the sensor keeps the light off even if motion is detected



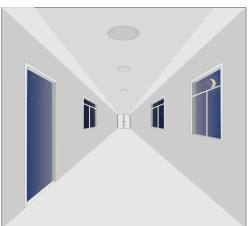
With insufficient daylight, the sensor turns the light on when motion is detected.



If there is no motion detected, the sensor keeps the light on 100% for holdtime.



After holdtime, sensor dims light to standby dimming level for standby period. if the standby period has been set to 0s, sensor turns the light off automatically after holdtime.



The sensor turns the light off automatically after the standby period if there is no motion detected.



Attention

1. The sensor should be installed by a qualified electrician. Ensure power is OFF before installation.
2. Please read the instructions carefully before using the product and keep it for other users to read any time.
3. We reserve the right to modify any incorrect text, image and technical parameters.
4. Any unauthorized modification is forbidden. Otherwise all guarantees will be immediately invalid.
5. Product could be optimized without prior notice.

* When ambient temperature approaches the human body's average temperature range(36°C~37°C/96.8~98.6°F), PIR sensor's detecting performance will significantly weaken or become non-responsive.

* When ambient temperature stays higher then 40°C/104°F, the PIR sensor's detecting performance will significantly weaken.

APPLICATION NOTES

1. Suitable for indoor applications. Half/completely outdoor environmental conditions might trigger the sensor.
2. Suitable for ceiling mount installation,. Adjust sensitivity properly if installed on walls.
3. The sensor should not be placed inside any other material. The fresnel lens must completely exposed to air.
4. Fresnel lens of the PIR sensor must be lower than the light fixture.
5. Sudden changes in temperature or airflow around the PIR sensor may create unsuitable environments for operation.
6. Obstructions between the sensor and presence area may create unsuitable environments for operation.
7. Detection distance performance works better when moving parallel rather than moving towards the sensor.
8. Daylight testing delivered in sunlight without shadow or specially designed lampshade or lens.
9. Dimming performance differs when connected to different drivers. If the driver can't completely turn off, the sensor can't either.
10. Input power voltage must be stable with float less than 10%.
11. The first time the sensor is powered on, the light will be at 100% for about 45 seconds, then dim to standby level or off.
12. Distance detection is delivered by testing for motion within about 165cm in an open area as a reference. The result differs by the size and speed of moving objects, mounting height and real-life situations.