HD07VR-PH-1
PIR HIGHBAY SENSOR

UL
c US
E529048

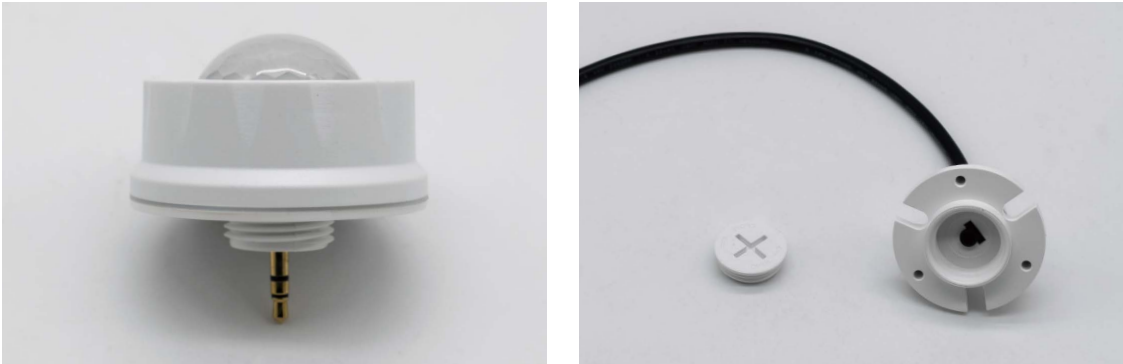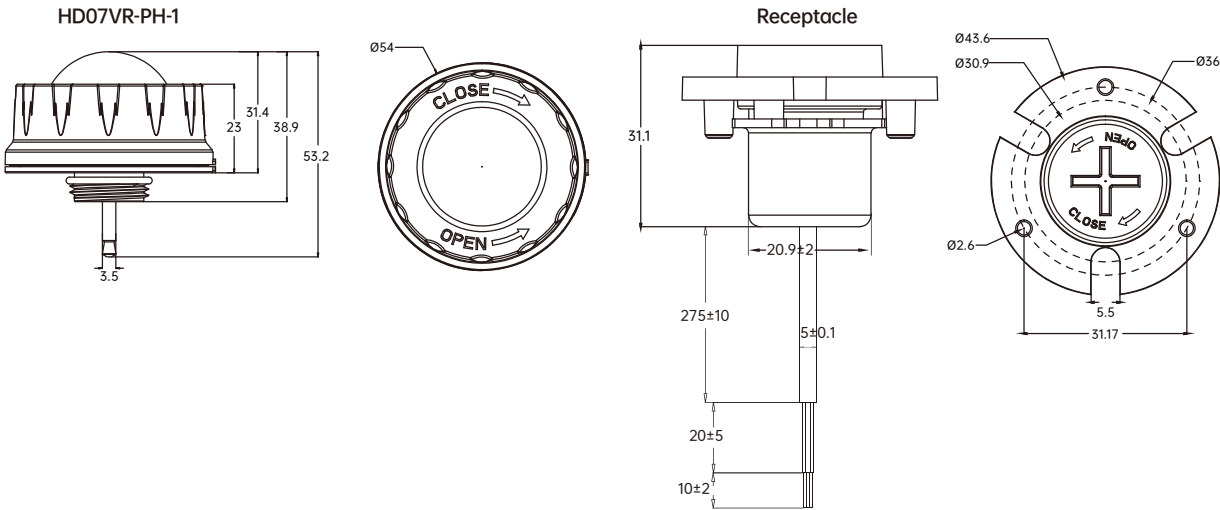## DC Powered Bi-Level Dim Dusk/Dawn PIR Sensor Control (For Highbay Light)

FEATURES AND BENEFITS

- PIR sensor head, 12VDC powered, remote control
- Bi-level dimming, daylight threshold and dusk/dawn function
- With Audio Jack, suitable for UFO highbay application
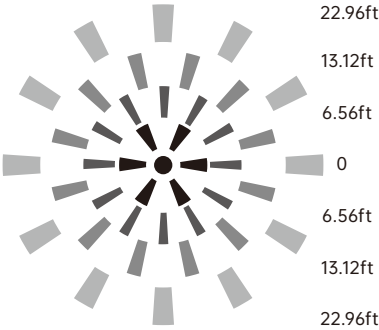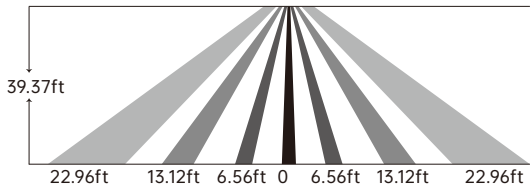- With UL certificate

DIMENSIONS

HD07VR-PH-1

Receptacle

DETECTION COVERAGE

HD07VR-PH-1

Mounting Height
<12m/39.37ft Ceiling Mounted

Detection Distance
Radius 3-7m/9.84-22.96ft

39.37ft

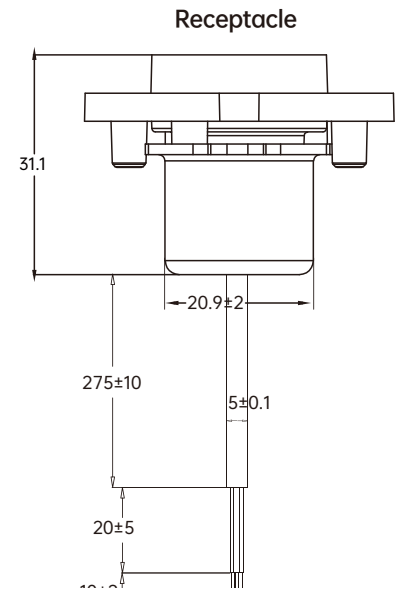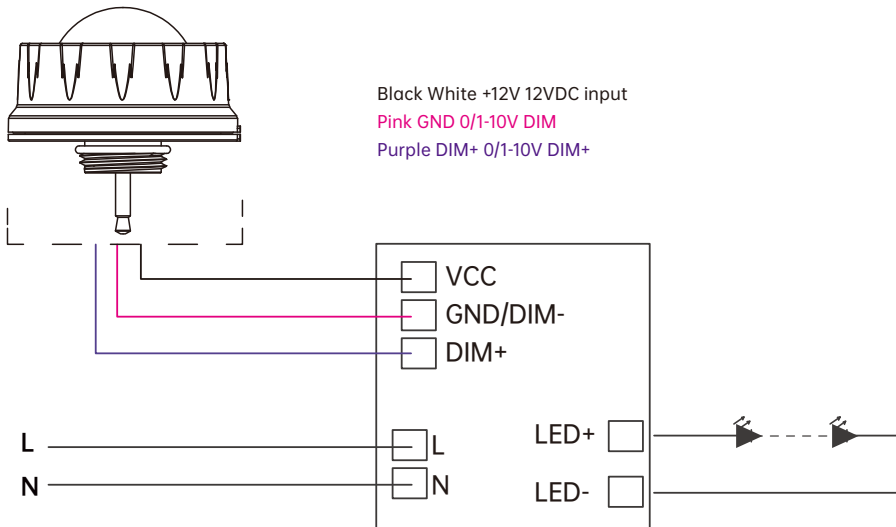22.96ft   13.12ft   6.56ft   0   6.56ft   13.12ft   22.96ft

22.96ft
13.12ft
6.56ft
0
6.56ft
13.12ft
22.96ft

Current

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SENSOR SPECIFICATIONS

Model NO.		HD07VR-PH-1
PIR INFORMATION	Infrared Wavelength	5-14um
	Output Signal Peak	≥3500mV
	Installation Height	12m/39ft Max.
	Detection Distance	≥3m/9ft
	Warranty	3 Years
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/10s/30s/1min/5min/10min/30min/60min+∞
	Dusk/Dawn Sensing/ Photocell	Daylight threshold as 30lux/ 50lux/ 80lux/ 120lux Standby period as +∞ ; Standby dimming level as 10%/20%/30%
	Default Program	Detection Area - 100% Holdtime - 5S Daylight Threshold - disable Standby Period - 0S Standby Dimming Level - 10%
	Control	Standard Partner HD05R, the LCD screen display remote (purchase separately)
INPUT	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	≥30mA
OUTPUT	Signal	DIM 0-10V
	Connection	12VDC input/ Black&White wire; DIM+/ Purple wire; DIM-/ Pink wire
	Stand-by Power	<30mA Power Consumption
ENVIRONMENT	Working Temp	-20°C~+60°C
	Storage Temp	-40°~+80° Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	Certification	UL (E529048)
	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP20
PACKAGE	Silk-Printing	Lasering
	Packing Description	1pcs/white neutral box
	Qty/ctn(pcs)	120
	Net Weight/pcs (kg)	0.05
	Gross Weight/CTN (kg)	6.6
	Carton Size (cm)	40*30*25

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WIRING DIAGRAM

Black White +12V 12VDC input
Pink GND 0/1-10V DIM
Purple DIM+ 0/1-10V DIM+

VCC
GND/DIM-
DIM+

L
N

L
N

LED+
LED-

Receptacle
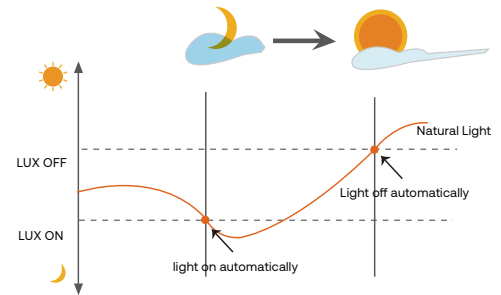
31.1

20.9±2

275±10

5±0.1

20±5

SENSOR SETTINGS AND FUNCTIONALITY

Sensor Accessory is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level
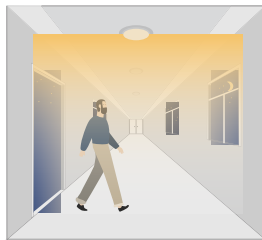
Precondition of Dusk/Dawn Function

1. Standby period is +∞;
2. Standby dimming level is on 10%, 20% or 30%
3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux

Natural Light
LUX OFF
Light off automatically
LUX ON
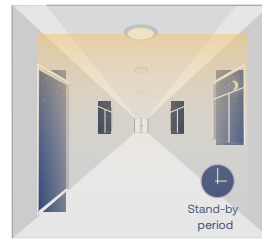light on automatically

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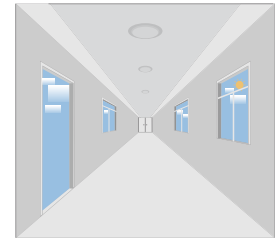
When sensor detects motion or presence it will bring light level up to 100%.

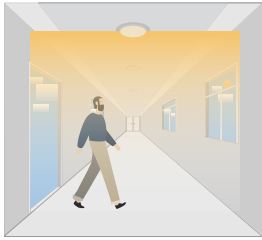After Motion is no longer detected, fixture remains at 100% for hold time.

Hold time

After pre-set hold time period it will dim light to standby dimming level again and always keep it
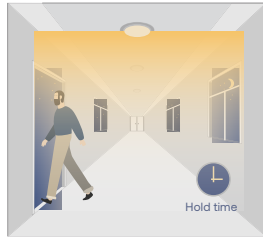
Stand-by period

With Sufficient ambient brightness, sensor will turn OFF light automatically.
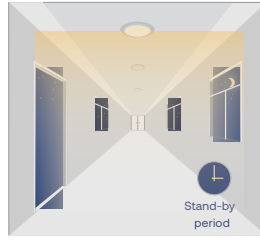
LED.com/discover

Current ⊙

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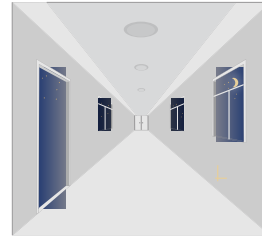## 2. WITH DAYLIGHT DISABLED

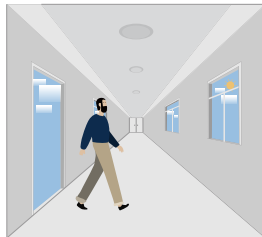Sensor turns light ON when motion is detected

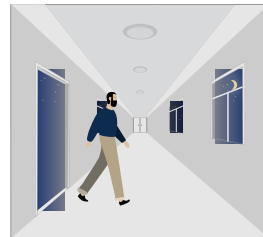Sensor holds for a time period after motion leaves

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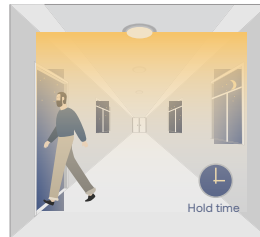

Sensor turns light OFF after standby period

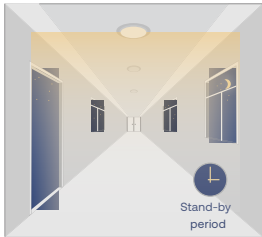## 3. WITH DAYLIGHGT THRESHOLD

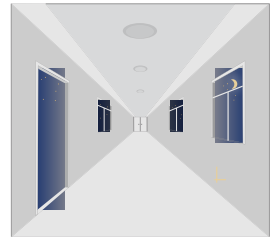With sufficient daylight, the sensor keeps light OFF even if motion gets detected

With insufficient daylight, the sensor turns light ON when motion gets detected

After there's no motion detected, the sensor keeps light ON 100% for holdtime.

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

The sensor turns OFF light automatically after the standby period when there's no motion detected

ATTENTION

1. The sensor should be installed by qualified electrician and ensure power is OFF before installation.
2. Please read the instruction carefully before using the product and keep it well 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.

APPLICATION NOTES

1. Suitable for indoor application, half/completely outdoor environment conditions might trigger the sensor.
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
3. PIR sensor can't be placed inside any material, fresnel lens must completely exposed in air.
4. Fresnel lens of the PIR sensor must be lower than light fixture.
5. Not suitable environment if there's sudden changed temperature of airflow for PIR sensor.
6. Not suitable environment if there's shelves blocking between the sensor and presence area.
7. Detection area options may NOT working obviously because it works depends on fresnel lens, it's physically defined.
8. Detection distance performance works better when moving parallelly than moving towards to the sensor.
9. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
10. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
11. Input power voltage must be stable with float less than 10%.
12. The first time powered ON sensor, light will be ON 100% for about 45S then dims to standby level or OFF.
13. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mountng height and real-life situation.