

GreenPerform Elite Highbay G2

LED Highbay/ LED

BY778P/BY778X

Mounting instruction



ta
35°C



IEC
60598

AS/NZS
60598

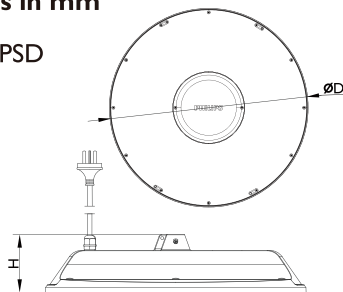


Type Desc	Voltage (V)	Frequency (Hz)	Power (W)	D(mm)	H(mm)	Weight (Kg)	CCT	Optics
BY778P LED85 PSD CAU	200-240	50/60	51	350	95	3.7	940(4000K)/965(6500K)	NB/WB
BY778P LED130 PSD CAU	200-240	50/60	78	350	95	3.7	940(4000K)/965(6500K)	NB/WB
BY778P LED175 PSD CAU	200-240	50/60	105	350	95	3.7	940(4000K)/965(6500K)	NB/WB
BY778P LED220 PSD CAU	200-240	50/60	130	430	95	4.7	940(4000K)/965(6500K)	NB/WB
BY778P LED260 PSD CAU	200-240	50/60	155	430	95	4.7	940(4000K)/965(6500K)	NB/WB
BY778P LED310 PSD CAU	200-240	50/60	184	480	109	5.4	940(4000K)/965(6500K)	NB/WB
BY778P LED350 PSD CAU	200-240	50/60	210	480	109	5.4	940(4000K)/965(6500K)	NB/WB
BY778P LED85 PSU CAU	200-240	50/60	51	350	95	2.9	940(4000K)/965(6500K)	NB/WB
BY778P LED130 PSU CAU	200-240	50/60	78	350	95	2.9	940(4000K)/965(6500K)	NB/WB
BY778P LED175 PSU CAU	200-240	50/60	105	350	95	2.9	940(4000K)/965(6500K)	NB/WB
BY778P LED220 PSU CAU	200-240	50/60	130	430	95	3.9	940(4000K)/965(6500K)	NB/WB
BY778P LED260 PSU CAU	200-240	50/60	155	430	95	3.9	940(4000K)/965(6500K)	NB/WB
BY778P LED310 PSU CAU	200-240	50/60	184	480	109	4.6	940(4000K)/965(6500K)	NB/WB
BY778P LED350 PSU CAU	200-240	50/60	210	480	109	4.6	940(4000K)/965(6500K)	NB/WB
BY778P LED85 SIA CAU	200-240	50/60	51	350	138	3.5	940(4000K)/965(6500K)	NB/WB
BY778P LED130 SIA CAU	200-240	50/60	78	350	138	3.5	940(4000K)/965(6500K)	NB/WB
BY778P LED175 SIA CAU	200-240	50/60	105	350	138	3.5	940(4000K)/965(6500K)	NB/WB
BY778P LED220 SIA CAU	200-240	50/60	130	430	138	4.5	940(4000K)/965(6500K)	NB/WB
BY778P LED260 SIA CAU	200-240	50/60	155	430	138	4.5	940(4000K)/965(6500K)	NB/WB
BY778P LED310 SIA CAU	200-240	50/60	184	480	151	5.3	940(4000K)/965(6500K)	NB/WB
BY778P LED350 SIA CAU	200-240	50/60	210	480	151	5.3	940(4000K)/965(6500K)	NB/WB

* This product contains a light source of energy efficiency class: B.

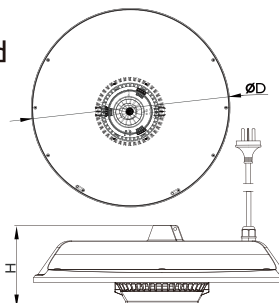
Dimensions in mm

PSU&PSD



IP66

Connected



IP65

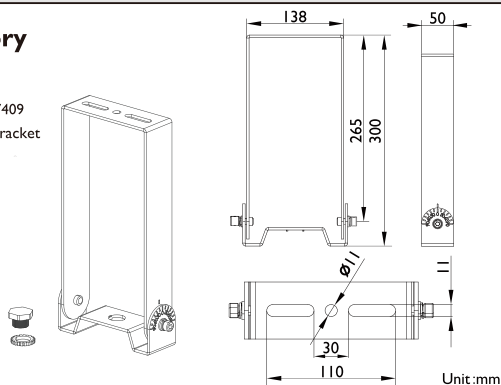


1. Luminaire should be parallel to the floor, should not exceed $< 2^\circ$.
2. For communication between luminaires, this would NOT allow a luminaire to luminaire distance to be greater than 10 meters.
3. Don't touch the sensor when you mount luminaires.

Accessory

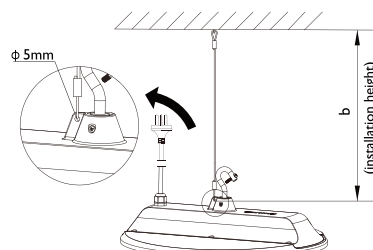
Bracket

911401637409
BY778Z Bracket



Unit:mm

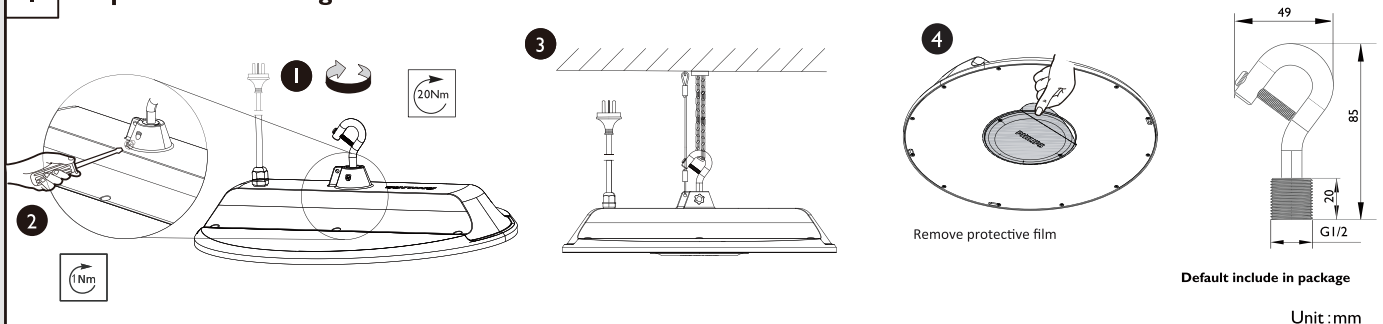
Safety string



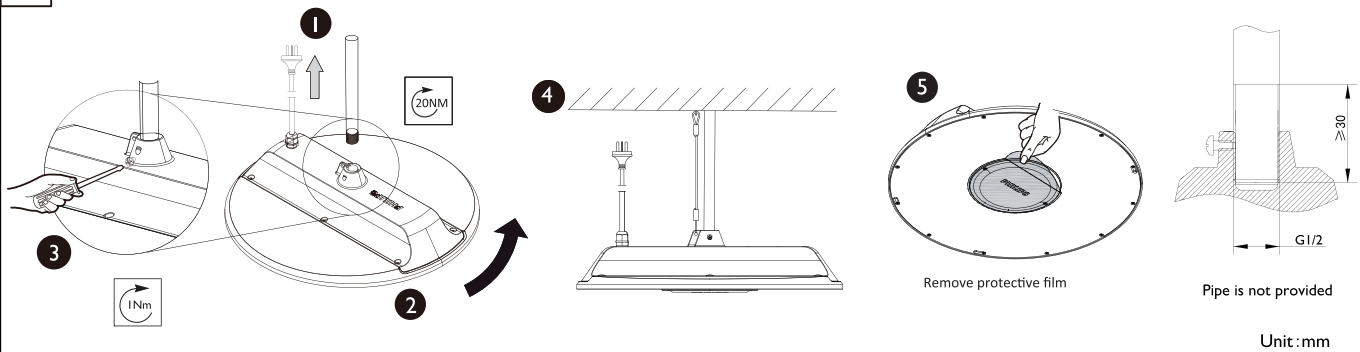
1. Safety cable can be mounted for this luminaire.
2. Safety cable and fixing screw are not provided by Signify, shall be arranged by a professional performing installation.
3. Material spec of safety cable should be robust and not less than SUS304 Ø3.
4. Safety cable length: $\min = d$, $\max = d + 30\text{cm}$, where d – luminaire installation distance from a ceiling/mounting surface.

PSU&PSD

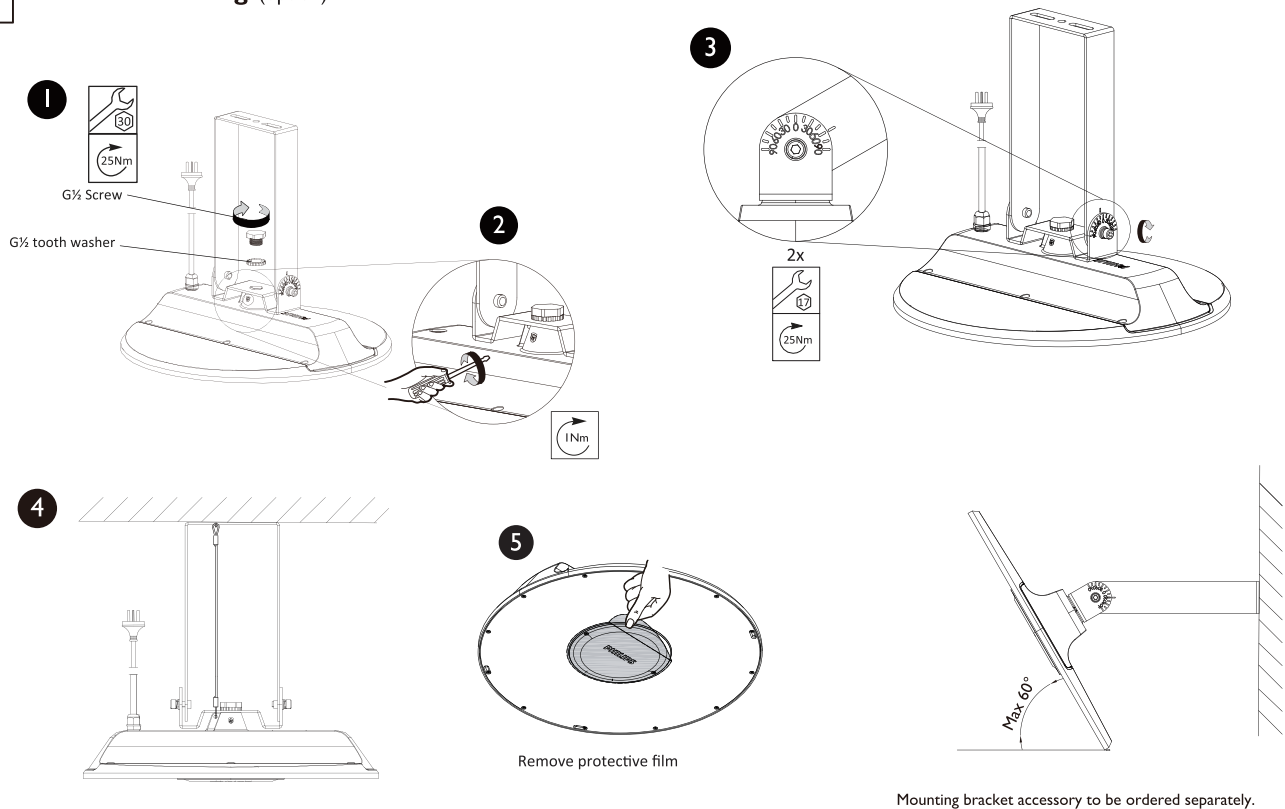
Suspension Mounting



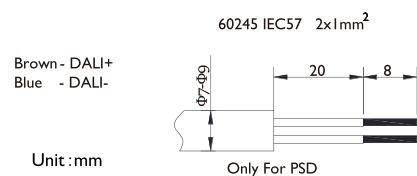
2 Pipe Mounting



3 Bracket Mounting (option)



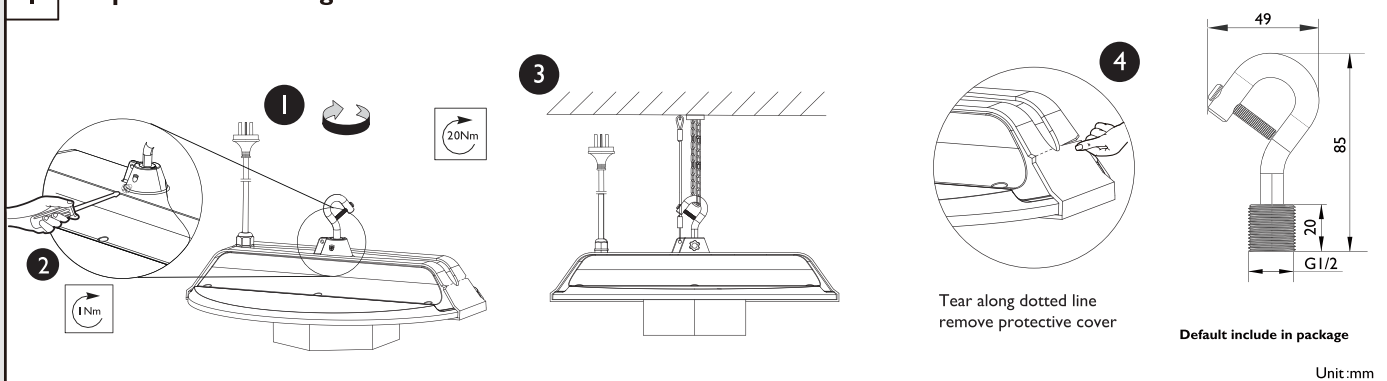
Connect Power Cable



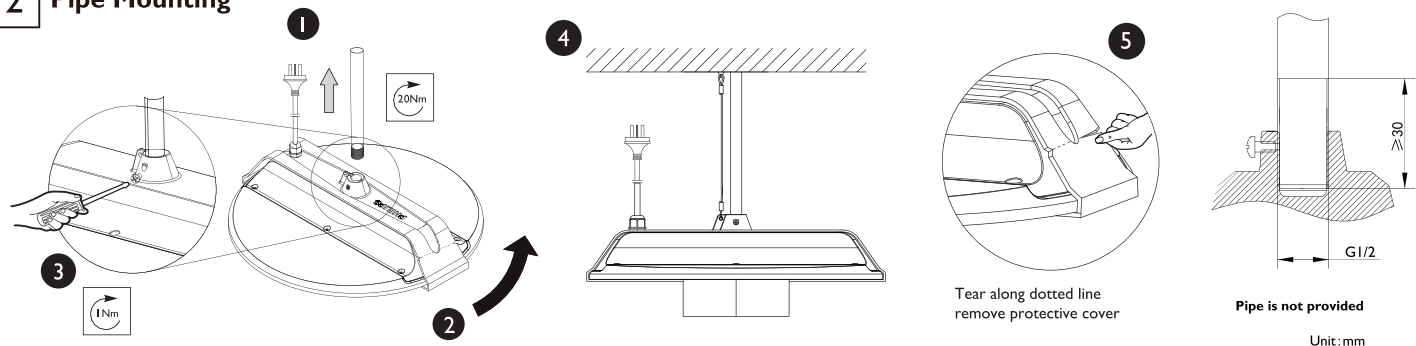
Insulation between LV mains and control conductors is basic insulation. Please use IP66 or above terminal box (dimension can not smaller than 10x20x25), it is not provided by Signify.

Connected

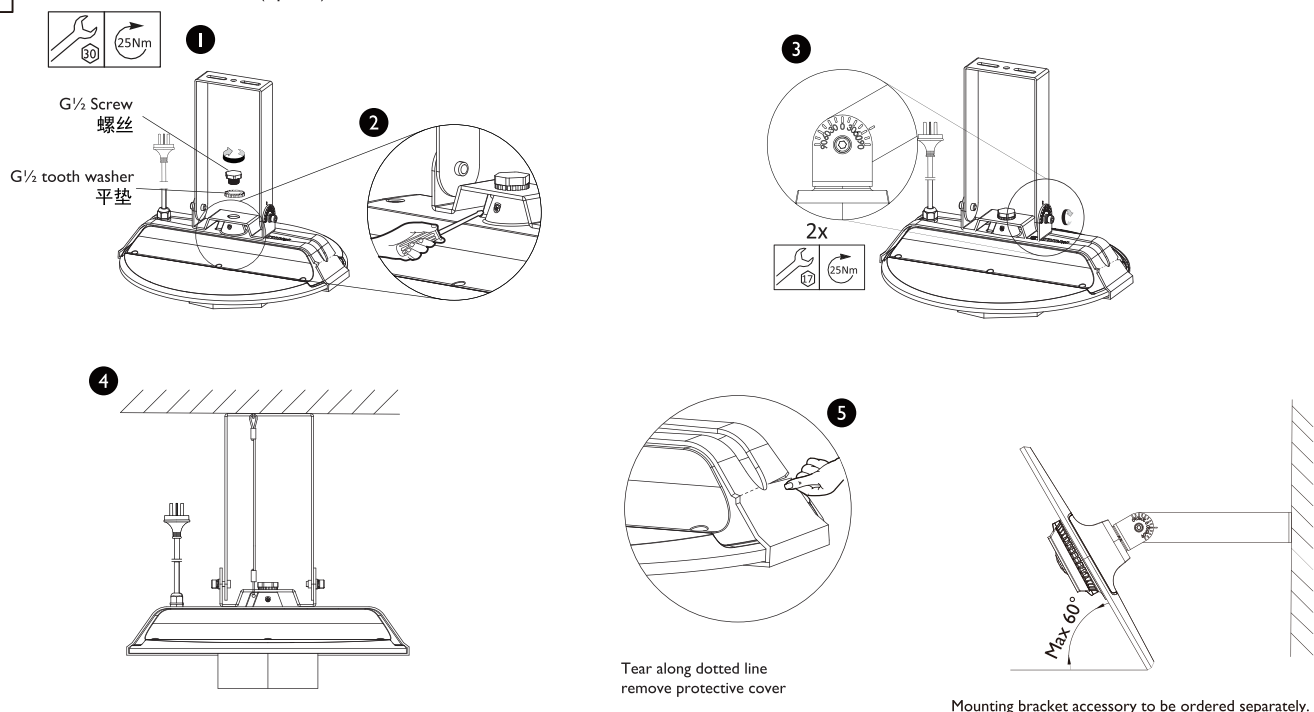
Suspension Mounting



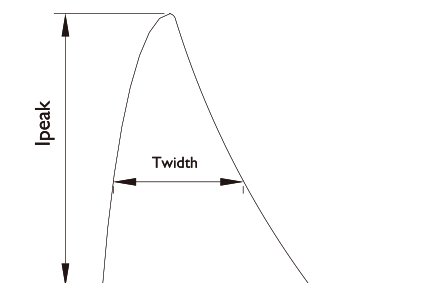
2 Pipe Mounting



3 Bracket Mounting (option)



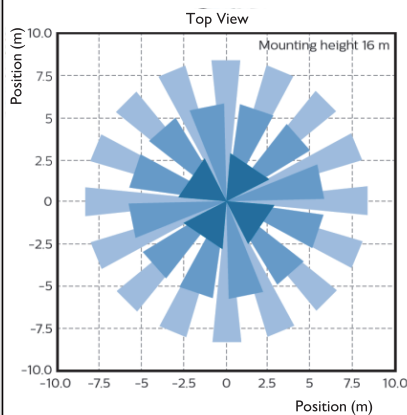
Inrush current



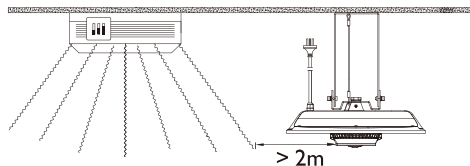
MODEL	Run current (A) @230V()	Start(Inrush)current (A) /Ipeak(A)	start current Duration(us) /T(@50% of Ipeak)(us)	*Touch current or protective conductor current(mA)	Maximum Number of Luminaire on MCB 16A Type B (pcs)	Maximum Number of Luminaire on MCB 16A Type C (pcs)
BY778P LED85 PSD CAU	0.29	59.3	148	0.75	15	25
BY778P LED130 PSD CAU	0.45	59.3	148	0.75	15	25
BY778P LED175 PSD CAU	0.59	66.6	200	0.75	10	16
BY778P LED220 PSD CAU	0.73	66.6	200	0.75	10	16
BY778P LED260 PSD CAU	0.86	87.9	168	0.75	8	12
BY778P LED310 PSD CAU	1.05	87.9	168	0.75	8	12
BY778P LED350 PSD CAU	1.15	93.6	200	0.75	7	10
BY778P LED85 PSU CAU	0.29	75	108	0.7	16	27
BY778P LED130 PSU CAU	0.45	75	108	0.7	16	27
BY778P LED175 PSU CAU	0.59	91.5	128	0.7	12	20
BY778P LED220 PSU CAU	0.73	91.5	128	0.7	12	20
BY778P LED260 PSU CAU	0.86	91.5	128	0.7	12	17
BY778P LED310 PSU CAU	1.05	107	144	0.7	8	13
BY778P LED350 PSU CAU	1.15	107	144	0.7	8	13
BY778P LED85 SIA CAU	0.29	59.3	148	0.75	15	25
BY778P LED130 SIA CAU	0.45	59.3	148	0.75	15	25
BY778P LED175 SIA CAU	0.59	66.6	200	0.75	10	16
BY778P LED220 SIA CAU	0.73	66.6	200	0.75	10	16
BY778P LED260 SIA CAU	0.86	87.9	168	0.75	8	12
BY778P LED310 SIA CAU	1.05	87.9	168	0.75	8	12
BY778P LED350 SIA CAU	1.15	93.6	200	0.75	7	10

The leakage current *(touch current or protective conductor current) of electrical circuit may be greatly dependent upon electrical supply cables used such as its rating and length, proper connection of electrical supply cables to luminaires and wiring connection topology of luminaires to the supply electrical circuit amongst other site conditions.

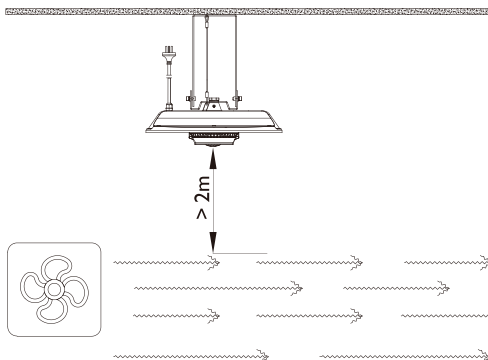
* In some cases referred to as Earth Leakage Current.



Sensor far away from heat source



Sensor far away from air outlet

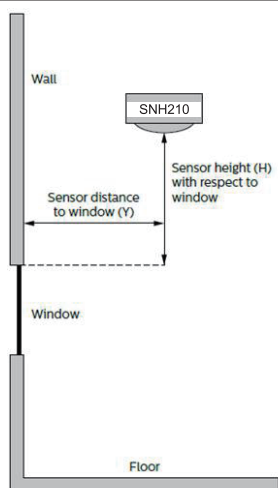
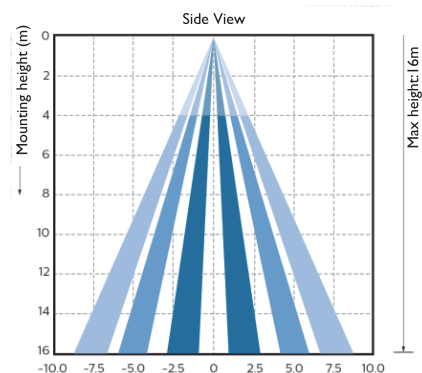


Disclaimer:

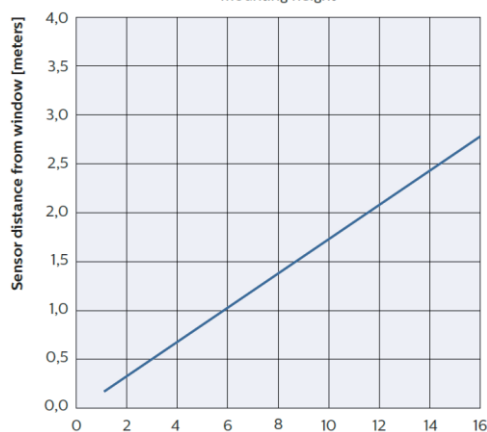
1. In these plots, the white areas are blind spots and the detection is based on subject's motion. An idle subject may not continue to trigger occupancy detection once the hold time expires.
2. As PIR based sensing works on temperature difference between the subject and the ground level, the occupancy detection could vary due to clothing and size of subject.

Warning:

Place heat radiating devices outside of the monitoring cone. Avoid drafts (e.g. from ventilators or heating systems).



Sensor distance from window = $0.1736 \times \text{sensor relative mounting height}$



Light sensor:

The light sensor measures the total amount of light with an opening angle of 10° whereas PIR has 30° , all calculated from normal. The following aspects should be observed during installation: Minimum distance from the window - refer below graph

Prevent light reflections from outside entering the sensor (for example sunlight reflection from a car/truck bonnet) as this will lead to incorrect light regulation.

As a guideline the formula $0.174 \times H$ can be used to calculate the minimum distance between the window and sensor whereby H is the height from the top of the window to the ceiling.



1. Please read this manual carefully before installation or using the product.
2. The sensor should be installed far away from the door or window where there is wind speed and convection, otherwise there will be frequent and accidental triggering.
3. The recommended height to place the sensor in the ceiling is 5~16 to assure movement coverage and detection.
4. Sensor away from signal devices such as routers (Zigbee, WIFI, etc.).

EN

Warning

1. The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
2. Turn power off before inspection, installation or removal.
3. Before using, external earthing is must required. Earthing is also must required in its whole life.
4. The Luminaire must be used within the applicable product specifications, installation instructions and environmental conditions for storage & operations according to application guidelines provided by Signify for product Warranty to be valid.
5. The corrosive atmosphere or hazardous materials such as sulfur, chlorine, phthalate, etc must be avoided during the use and storage.
6. The manufacturer will not take responsibility caused by improper use or self-modifications of the product.

Power Connection

7. If the external flexible cable or cord of this luminaire is damaged. It shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

Application

8. For Indoor use only. This product is not suitable for cold storage areas where obvious temperature gradients are present, such as ventilation opening, door, etc.
9. The height between luminous surface and ground suggested be more than 5m; the height between bottom of luminaire and mounting surface must be more than 0.3m.
10. Similar installation or application like flood and tunnel luminaires are NOT allowed.
11. Not suitable for use in harsh vibration and often causing vibration or swinging environment. Also, not suitable for area prone to hurricane and extreme winds.
12. If customer require the luminous surface levelness $< 1^\circ$, the pipe mounting method is recommended, and suggest to use gradienter to precisely measure and adjust.

Maintenance

13. Periodic cleaning of the luminaire optical lens cover will ensure maximum optical efficiency. Luminaire shall be cleaned with a dry soft cloth only.
14. The light source contained in this luminaire shall only be replaced by the manufacturer or their service agent or a skilled person. The servicing of the control gear in this luminaire should only be undertaken by the manufacturer or their service agent or a similarly skilled person.
15. The control gear contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
16. This product contains a light source of energy efficiency class: B



Please inform yourself about the local waste disposal, separation and collection system for electrical and electronic products and packaging. Please act according to your local rules and do not dispose your old product and packaging with your normal household waste. The correct disposal of the packaging, your product and/or batteries will help prevent potential negative consequences for the environment and human health. Batteries should be disposed separately from the municipal waste stream via designated collection facilities. When disposing a product that contains non-user replaceable batteries, the non-user replaceable batteries shall be removed by a professional.