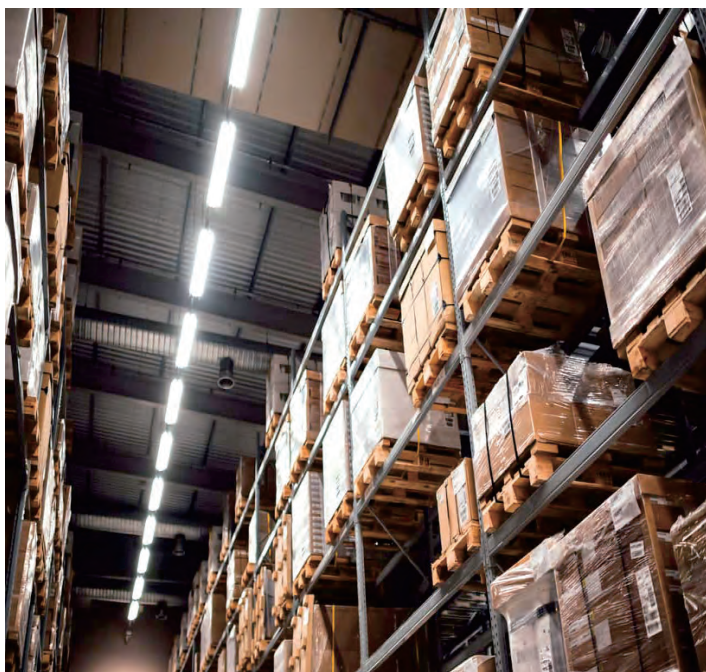


Quick Connect IP66 batten with cable through MERRYTEK sensor , emergency models



Advantages

- Quick connection by clips
- Full range of Straight, Elbow, Tee and Cross connector plus Dummy body and Dummy body connector to make most possible lighting configuration
- Equipped with Philips Certadriver drivers for Standard Models, Xitanium drivers for Emergency Models, Ripple free and meet new EPREL requirement
- MERRYTEK sensor for Occupancy comfort and energy saving
- Emergency models available



Features

- 3 measurement for selection 600mm, 1200mm, 1500mm
- 3000 and 5000K LG or LumiLEDs 2835 chips to create 3000K, 4000K and 5000K in one body
- CRI>80
- High efficacy 120Lm/w
- All straight, Elbow, Tee and Cross connectors equipped with 1.5mm² cable for connection to next batten/battens
- Dummy body with Dummy body connector for continuous connections with illuminated battens for better lighting plan
- Individual mounted or continuous mounted battens to make installation easy and efficient
- Nice looking battens and installation method to form a decorative part of the interior design



Garage



Car Park



Footbridge



Production Line



UNI-BRIGHT nv
Belcrownlaan 13 Q
2100 Antwerpen
België

+32 (3) 641 61 40
www.unibright.be



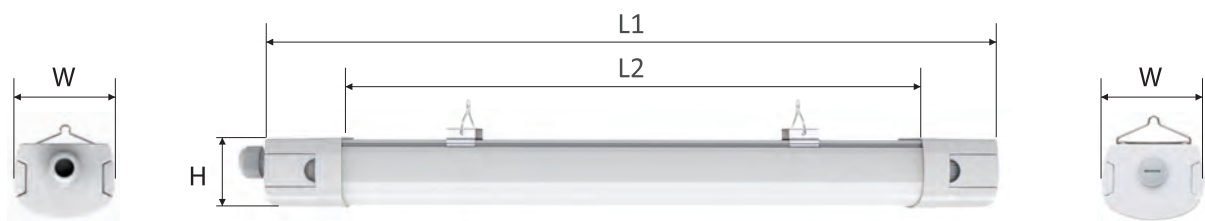
General specifications

Model	600mm	1200mm	1500mm
Structure for all models			
Body and Diffuser	Polycarbonate extrusion with white body and opal diffuser		
End cap	Polycarbonate injection moulding in white		
Gearplate	Aluminium extrusion epoxy power coat		
Accessories	Cable gland x 2, Mounting bracket x 2, V shape hook x 2, fixing screw set x2		
Connectors	Straight, Elbow, Tee and Cross c/w 1.5mm ² cable for connecting to other batten/battens		
Cable through	5 x 1.5mm ² cable through from one to the other end with 5 pole terminal block x 2		
IP rating	66		
IK rating	8		
Dimension (mm)	600x83x63	1200x83x63	1500x83x63
Working condition and Warranty			
Ambient temperature (°C)	-25 to 35		
Working Humidity (%)	10 to 90		
Life time (Hours)	50,000		
Warranty	5 years or 35,000 hours whichever come first		
Compliant	CE-LVD, CE-EMC, RoHS		



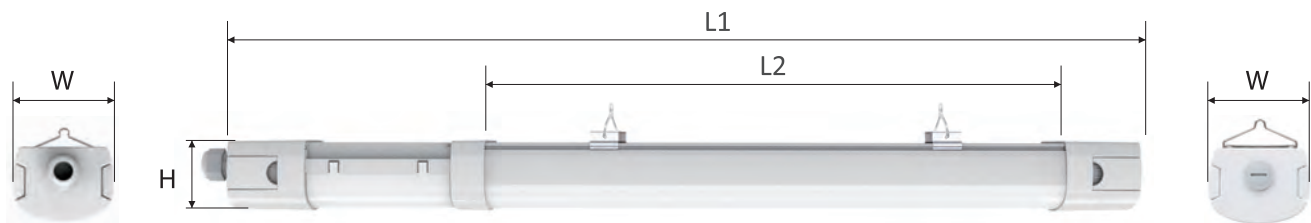
Dimension

1. Standard and Emergency model



Model	Length L1 (mm)	Length L2 (mm)	Width W (mm)	Height H (mm)
QC6018	600	460	83	63
QC12036 QC12036E	1200	1060	83	63
QC15050 QC15050E	1500	1360	83	63

2. Sensor with and without emergency



Model	Length L1 (mm)	Length L2 (mm)	Width W (mm)	Height H (mm)
QC6018S	760	460	83	63
QC12036S QC12036SE	1360	1060	83	63
QC15050S QC15050SE	1660	1360	83	63

Standard Models with and without Sensor

Model	QC6018	QC6018S	QC12036	QC12036S	QC15050	QC15050S
MERRTEK sensor	X	MC098S	X	MC098S	X	MC098S
Electrical data						
Driver model (Philips Certadrive)	9290 028 74380		9290 028 74480		9290 028 74580	
Driver description	CertaDrive 19W 200/350mA 54V 230V		CertaDrive 44W 200/350mA 125V 230V		CertaDrive 65W 200/350mA 185V 230V	
Input voltage (Vac)	220-240Vac, 50Hz					
Max Input current (mA)	100		230		330	
Input power (W)	18		35		47	
Power factor	>0.9					
Driver Efficiency (%)	86		91		92	
Output voltage (Vdc)	48		96		135	
Output current (mA)	350					
Output Ripple LF	≤ 5%					
Output Ripple HF	≤ 15%					
Class	I					
Inrush current (A)	9.08		14.2		15	
THD	<12%					
Surge protection Diff/common mode (KV)	1/2					
Short circuit protection	Yes					
Overload protection	Yes					
Over power protection	Yes					
Max no protected by 16A Type B MCB (Pcs)	72		36		31	
Photometric data						
Ra	>80					
Color temperature (K)	Can set to 3000 or 4000 or 5000K by Dip-switch					
Lumen Output at 3000K (Lm)	1900		4000		5300	
Lumen Output at 4000K (Lm)	2100		4400		5900	
Lumen Output at 5000K (Lm)	2000		4200		5800	
Color tolerance	≤ 5 SDCM					
LED chips	LG or LumiLEDs 2835 , 0.5W, 3Vdc or equivalent 3000 and 5000K					
No of chips	2 x 48		2 x 96		2 x 135	
Beam angle	110°					

Emergency model with and without sensor

Model		QC12036E	QC12036SE	QC15050E	QC15050SE
MERRTEK sensor		X	MC098S	X	MC098S
Emergency Power Supply		✓	✓	✓	✓
Electrical data					
Driver model (Philips Xitanium)		9290 028 31880		9290 028 31980	
Driver description		Xitanium 41W 0.5-0.8A 51V DS 230V		Xitanium 54W 0.9/1.05A 51V DS 230V	
Input voltage (Vac)		220-240Vac, 50Hz			
Max Input current (mA)		260		290	
Input power (W)		35		47	
Power factor		>0.9			
Driver Efficiency (%)		88		89	
Output voltage (Vdc)		39		39	
Output current (mA)		800		1050	
Output Ripple LF		≤ 4%			
Class		II			
Inrush current (A)		15.3		21.7	
THD		<20%			
Surge protection Diff/common mode (KV)		1/2			
Short circuit protection		Yes			
Overload protection		Yes			
Over power protection		Yes			
Max no protected by 16A Type B MCB (Pcs)		50		38	
Photometric data					
Ra		>80			
Color temperature (K)		Can set to 3000 or 4000 or 5000K by Dip-switch			
Lumen Output at 3000K (Lm)	1900	4000		5300	
Lumen Output at 4000K (Lm)	2100	4400		5900	
Lumen Output at 5000K (Lm)	2000	4200		5800	
Color tolerance		≤ 5 SDCM			
LED chips		LG or LumiLEDs 2835 , 0.5W, 3Vdc or equivalent 3000 and 5000K			
No of chips	Standard and Sensor models:	2 x 48	2 x 96	2 x 135	
	Emergency models:		2 x 98	2 x 140	
Beam angle		110°			

Specification of Auto-test Emergency Supply

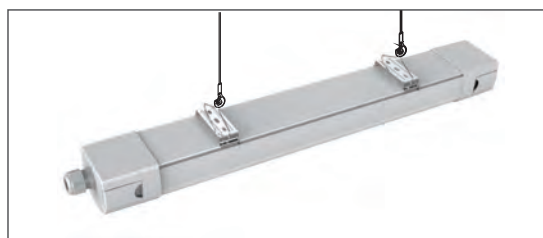


Parameter	Description
Inverter Dimension (mm)	157.5 X 30.4 X 21mm
Input Voltage	220-240Vac, 50/60Hz
Output Voltage	1.5/1.8m : 50-200Vdc
Battery type	LiFePO ₄ 1500mAH 6.4Vdc
Charge time	<24 hours
Designed Life	>4 Years
Operating Temp. (°C)	0 - 50°C
Emergency Power Output	2.5W
Work Mode	Switch ON/OFF, maintain and non-maintain depending on wiring as indicated below
Indicator Light	To show the status of the inverter and battery
Protection	Over-Charge / Over-Discharge
Operating time for 2.5W	>3.0 hours

Installation Method



Ceiling and wall mounted
Good for most installaton environment.



Pendant Mounted
This installaton method is good for high ceiling taller than 3m.

Suspension accessories



Suspension wire Adjustable length
of 3M max for pendant mounted








Hook and mounting bracket for pendant mounted



Safety screws for mounting bracket

Connectors

Picture	Code	Dimension(mm)	Description
	QCSC	95 x 83 x 63	Straight Connector with 5x1.5mm ² cable 250mm long
	QCLC	130 x 130 x 63	Elbow Connector with 5x1.5mm ² cable 350mm long
	QCTC	180 x 130 x 63	Tee Connector with 10x1.5mm ² cable 350mm long
	QCCC	180 x 180 x 63	Cross Connector with 15x1.5mm ² cable 350mm long
	QCDBC	70 x 83x 63	Dummy body connector



1.Straight



2.Elbow

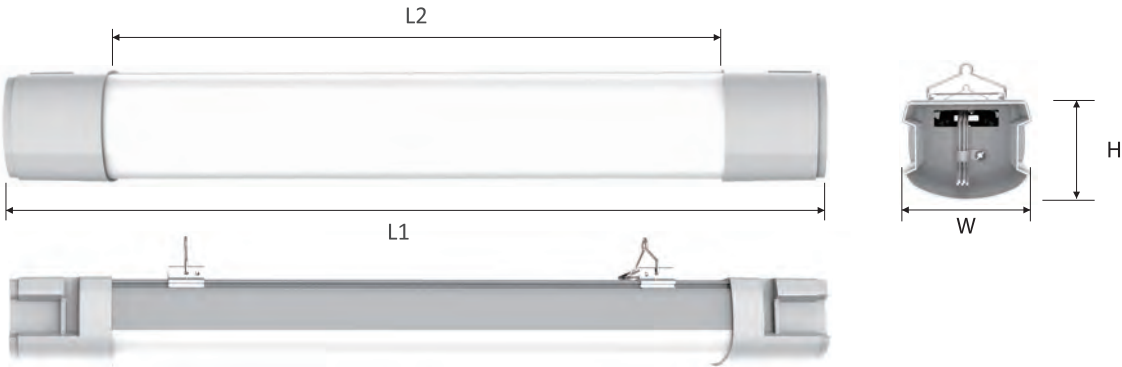


3.Tee



4.Cross

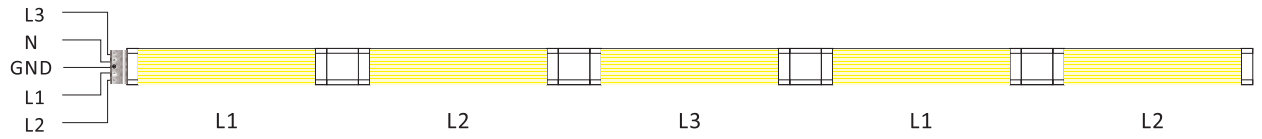
Dummy body



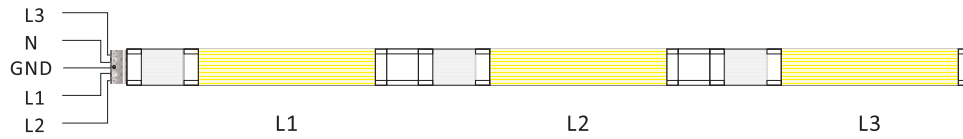
Model	Length L1 (mm)	Length L2 (mm)	Width W (mm)	Height H (mm)
QC60DB	600	460	83	63
QC120DB	1200	1060	83	63
QC1505DB	1500	1360	83	63

Flexible and amazing configurations

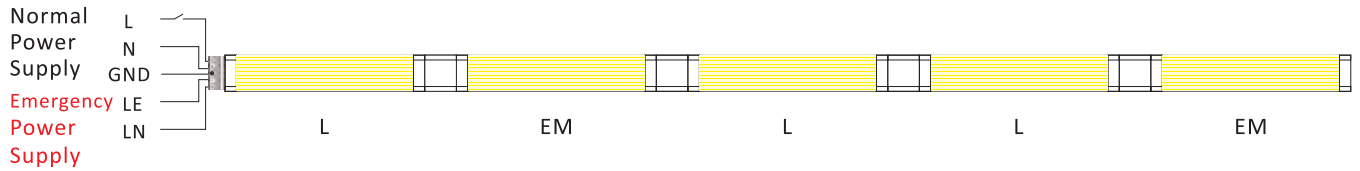
1. 3 phase connection for basic models



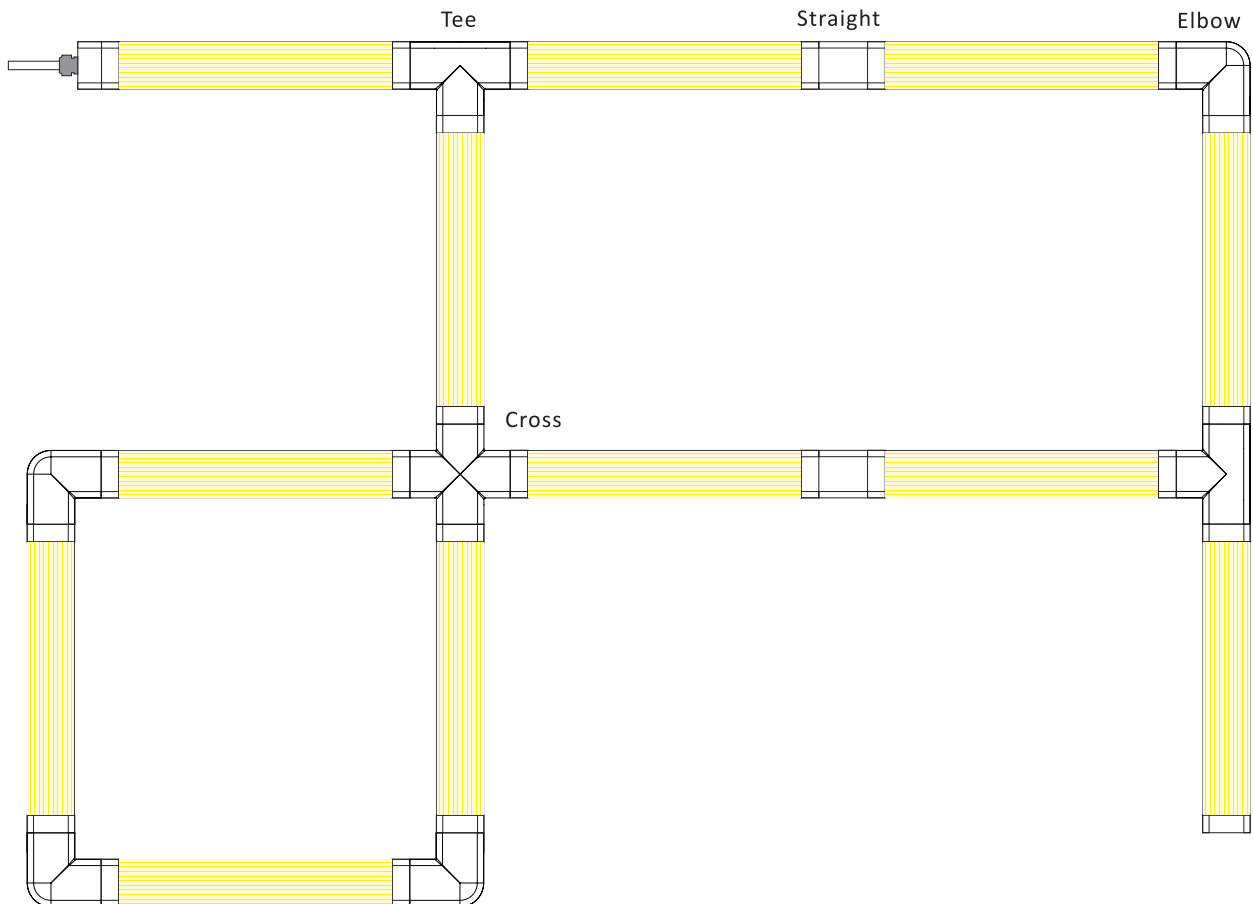
2. 3 Phase connections with sensor



3. Single phase connections with emergency

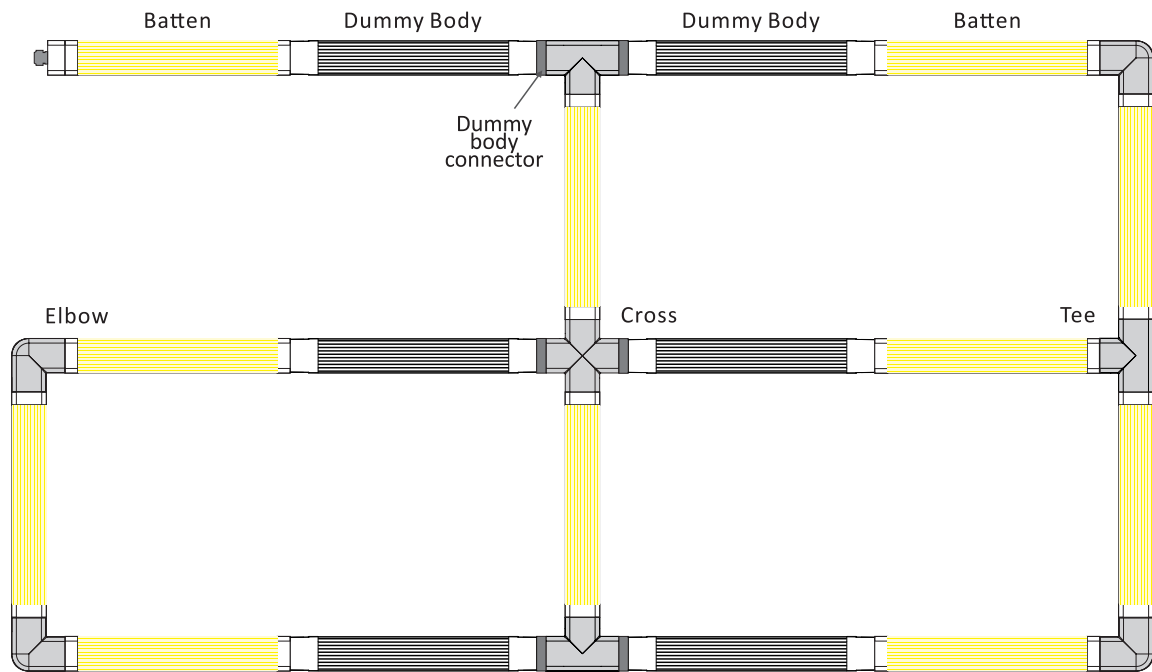


4. Special connections example by different connectors



4. Batten and Dummy Body connection

With all different connectors, dummy body and battens, you can make IP66 continuous connection and all possible configuration as per your functional and decorative installation

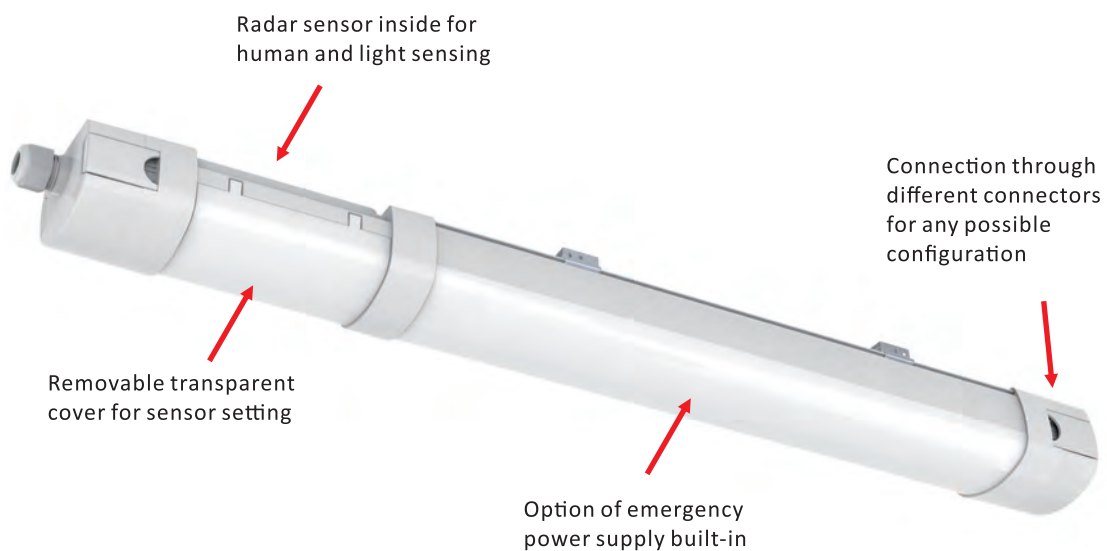


A variety of flexible connection methods

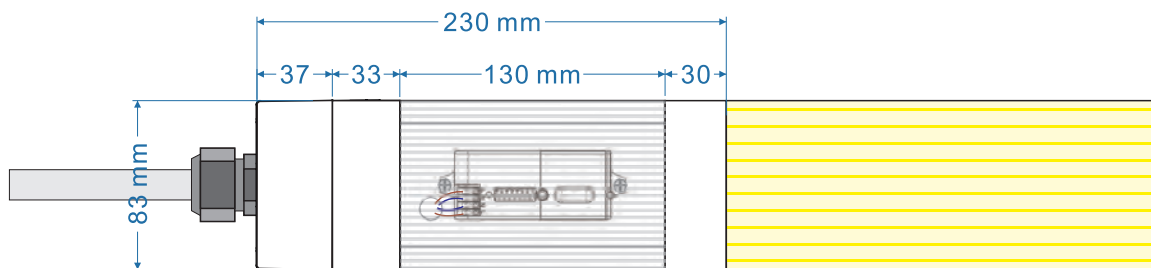


Batten, Dummy body connector, Dummy body, Dimmy body connector, batten

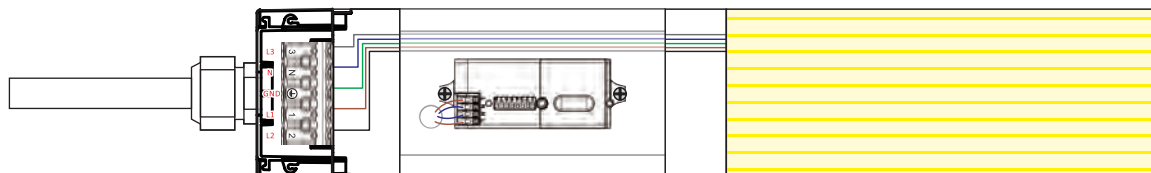
Sensor model physical look



Plain view of batten with MC098S sensor



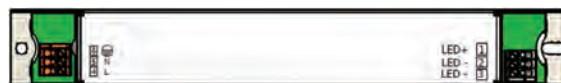
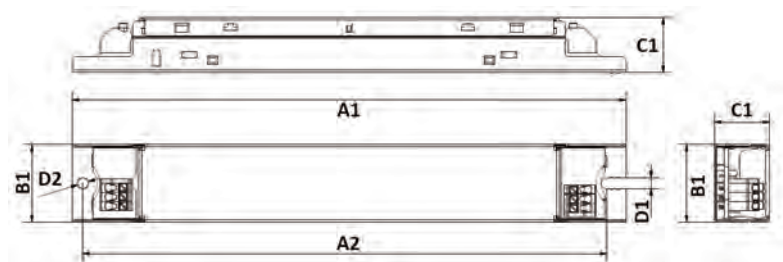
Inside connection of batten with MC098S sensor



Driver specifications for all models

PHILIPS

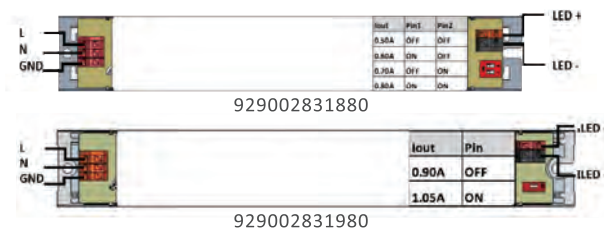
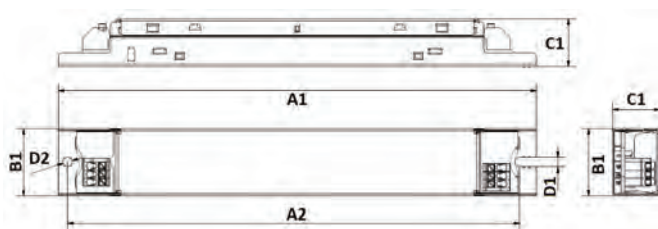
Driver Model	A1(mm)	A2(mm)	B1 (mm)	C1(mm)	D1(mm)	D2(mm)
929002874380	210	198.5	30	21	4.1	4.1
929002874480	210	198.5	30	21	4.1	4.1
929002874580	210	198.5	30	21	4.1	4.1



Driver specifications for all Emergency

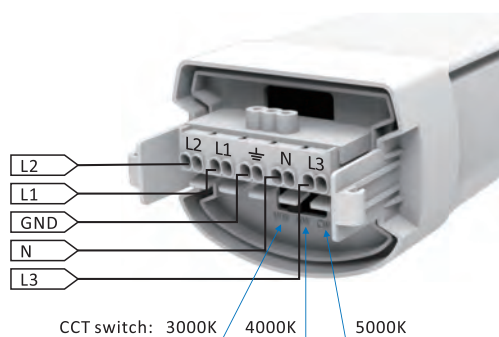
PHILIPS

Driver Model	A1(mm)	A2(mm)	B1(mm)	C1(mm)	D1(mm)	D2(mm)
929002831880	188	176.4	30.2	21	4.1	4.1
929002831980	210	198.4	30.2	21	4	4

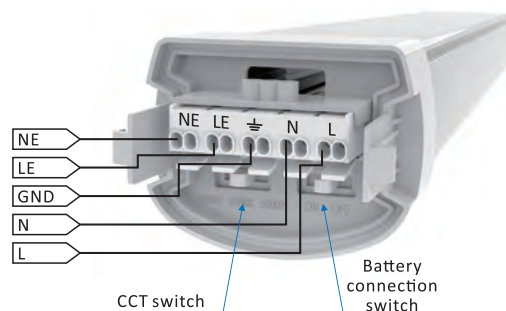


Wiring diagram

1. Standard and Sensor models



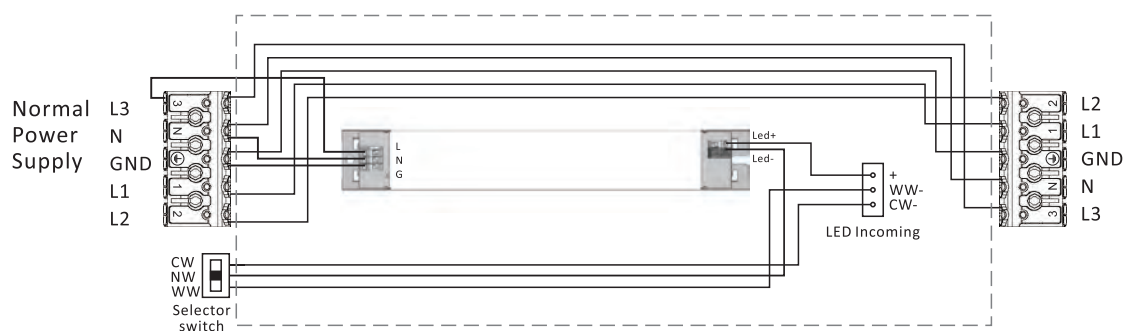
2. All Emergency models



After installation completed, connect the battery by switch on the battery connection switch

1. Wiring diagram of Standard models

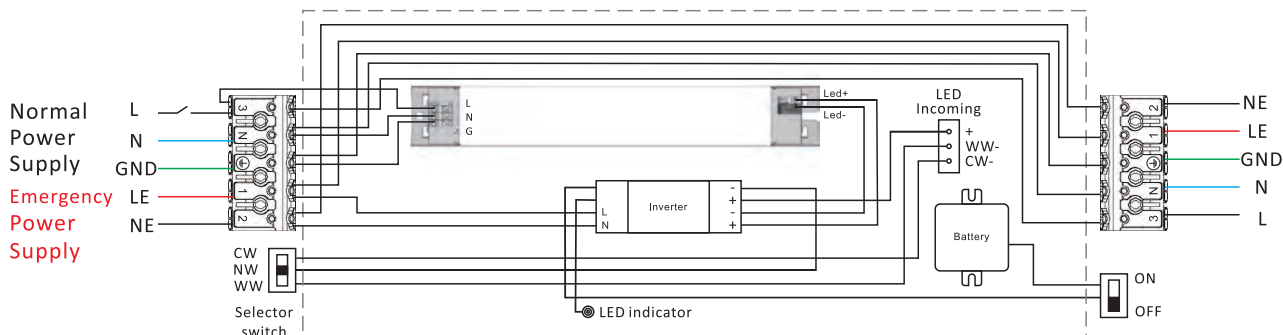
PHILIPS



Live connected on incoming side for Easy switching to L1 or L2

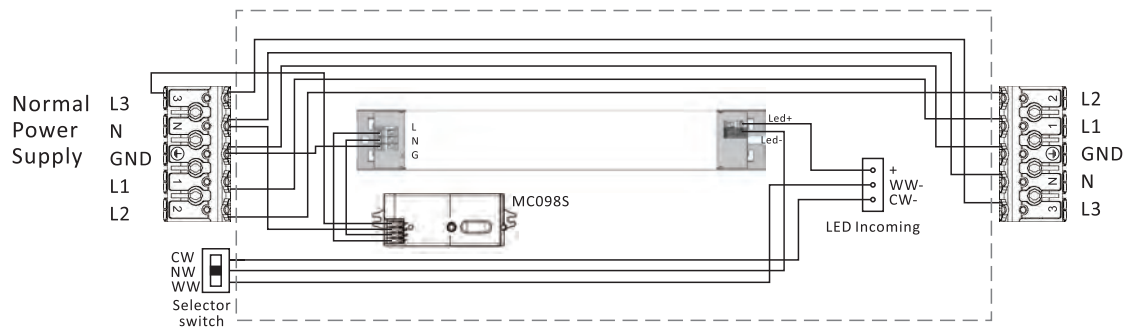
2. Wiring diagram of models with Emergency supply

PHILIPS



3. Wiring diagram of sensor models

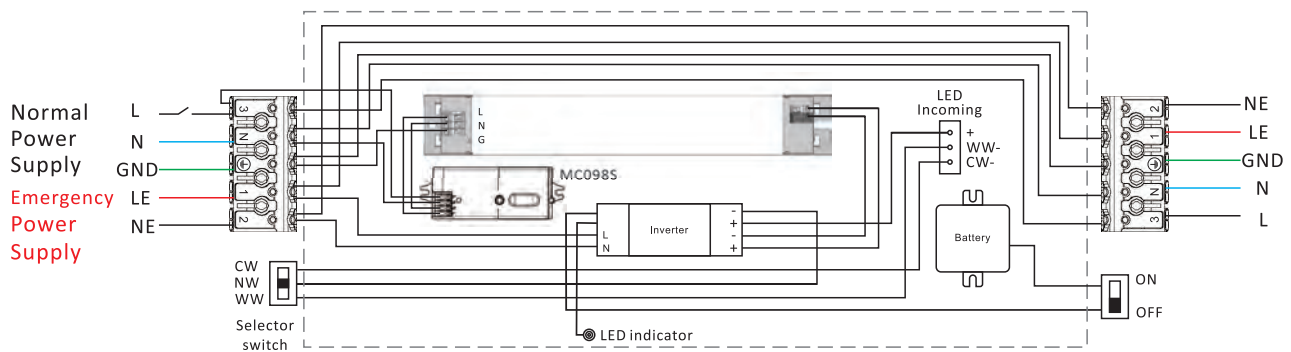
PHILIPS



Live connected on incoming side for Easy switching to L1 or L2

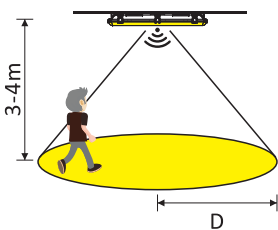
4. Wiring diagram of models with sensor and emergency supply

PHILIPS



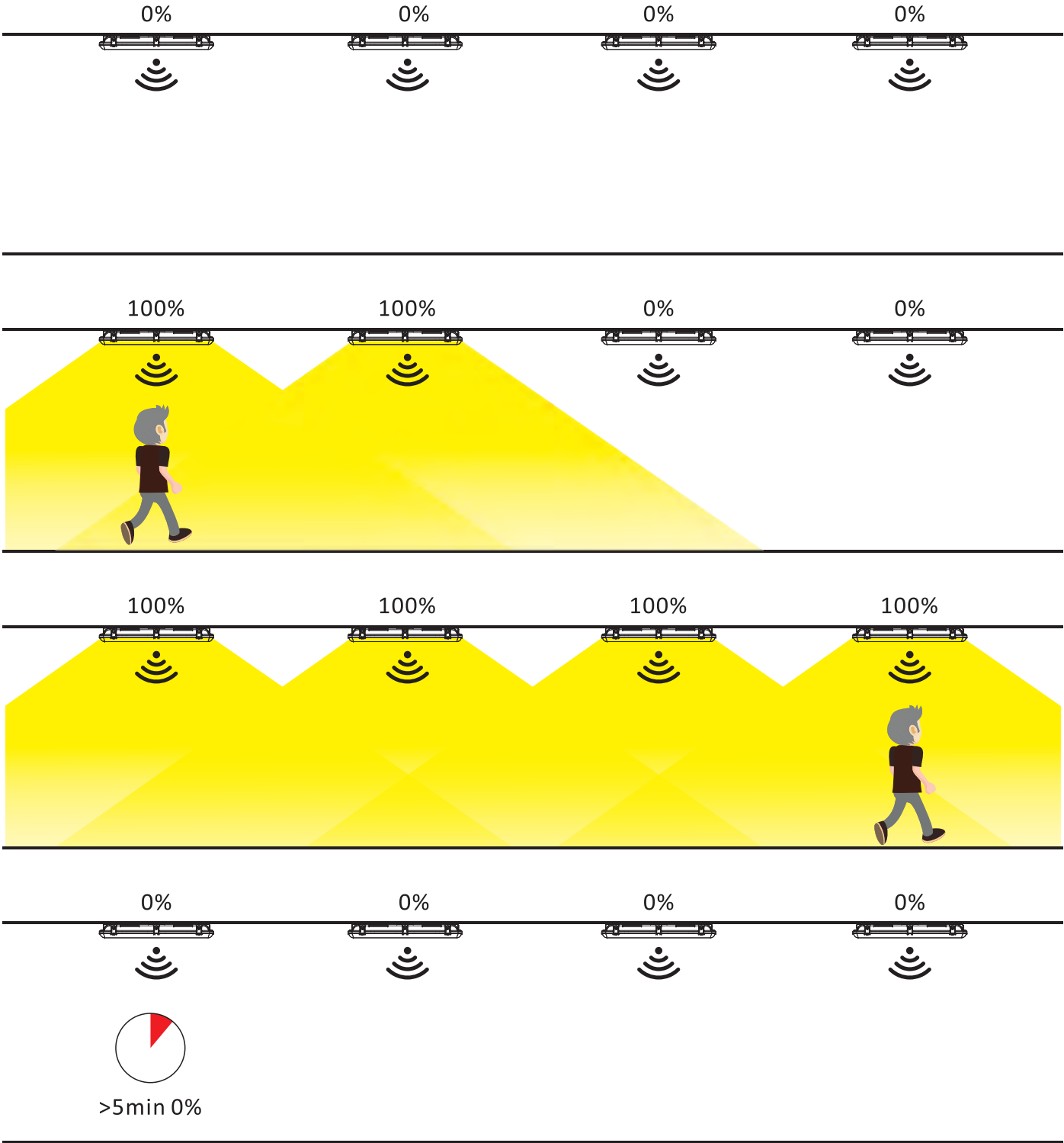
How Quick Connect work with sensor

Sensing distance



Setting the following by the dip-switch in the sensor

- Sensing distance** : 1-2m, 2-4m, 4-6m, 6-8m
- Hold time** : 5s, 30s, 90s, 5min, 20min, 30min
- Daylight threshold** : 2Lux, 10Lux, 30Lux, 50Lux, Disable
- Override sensor** : Quick switch ON/OFF 3 times within 2sec to override sensor function. Lights will switch on all the time. Power off and on again to recover sensor function.



MERRYTEK sensor specifications

1. Features



MC098S

- Ultra-slim design for Tri-proof LED light
- Patented antenna design makes reliable detecting, avoid missing triggered when sensor built-in backside of metal LED plate.
- Adjustable detecting sensitivity via DIP switches, suitable to variety of installation sites.
- Support 6m Max. Mounting height .
- 5 years warranty

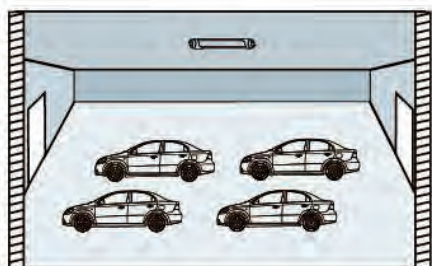
2. Parameter

Input	Operating Voltage Range	198-264V AC, 50Hz/60Hz
	Rated Voltage	220-240V AC, 50Hz/60Hz
	Stand-by Power	≤0.5W
	Surge Test	L--N: 1kV
Output	Working Mode	ON/OFF function
	Type of Load	Inductive or Resistive
	Load Capacity	400W(Inductive) ; 800W(Resistive)
	Max. Surge Capacity	30A (50% Ipeak, twidth =500uS, 230Vac full load, cold start); 60A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)
Sensor Parameters	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.
	Transmitting power	0.5mW Max.
	Hold time	5s//30s/90s/5min/20min/30min
	Detection Sensitivity	100%/75%/50%/25%
	Daylight Sensor	2Lux/10Lux/30Lux/50Lux/Disable
	Detecting Radius	3-10m (mounting height 3-4m), 2-8m(mounting height 6m)
	Mounting Height	6m Max.
	Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)
Operating Environment	Operating Temperature	-25°C...+60°C
	Storage Temperature	-40°C...+80°C(Humidity: 10%-95% Non-condensing)
Certificate Standards	Safety standards	EN61058-1
	EMC standards	EN300440; EN301489-1; EN55015; EN61547; EN61000-3-2; EN61000-3-3; EN62479
	Environmental Requirement	Compliant to RoHS
	Certificate	CE, RED

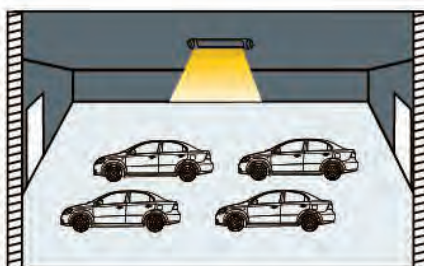
Others	Wiring	Press-in Type Terminals, wire diameter: 0.75-1.5mm ²
	IP Rating	IP20
	Protection Class	Class II
	Installation	Built-in
	Dimension	77.5*34.5*22mm
	Package	Bubble bag+Clapboard + Carton (K=A)
	Net Weight	58±2g
	Lifetime	5 years warranty @Ta 230V full load
<p>Note</p> <p>1. "N/A" means not available.</p> <p>2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 170cm height person and walking speed is 0.3m/s.</p>		

3.Function

On/OFF Function



- 1 With sufficient ambient light, the light will not be switched on even if with motion signal.

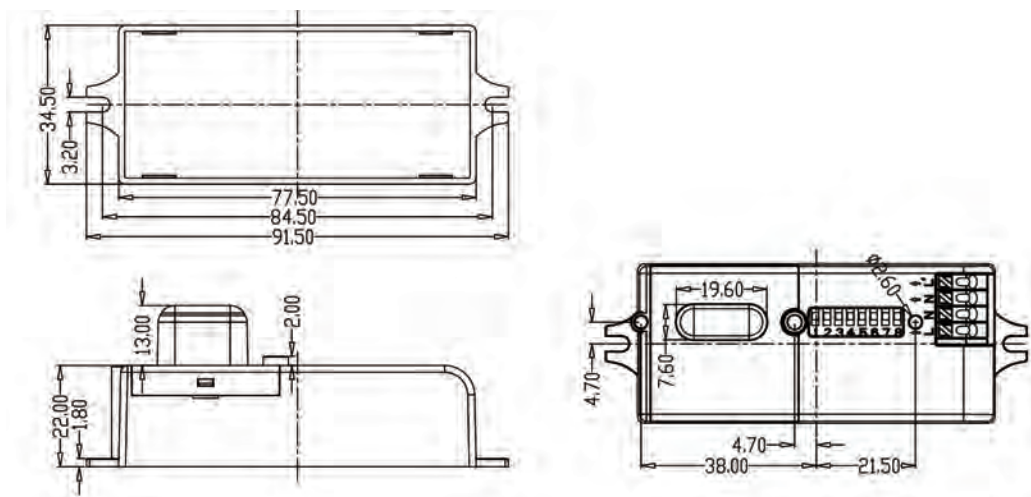


- 2 With insufficient ambient light, the sensor switches on the light when motion is detected.

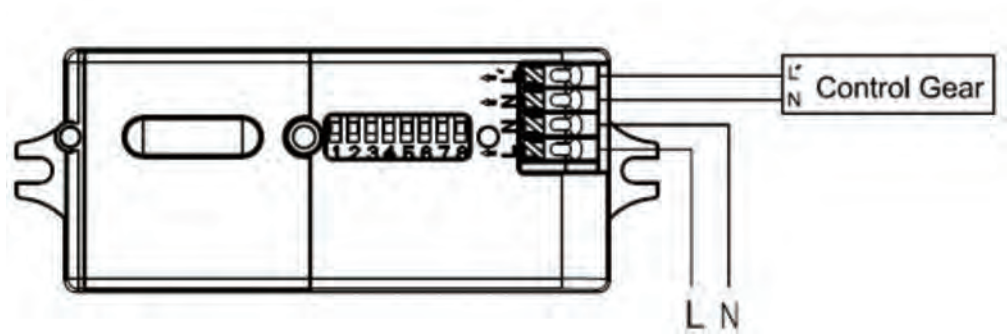


- 3 After elapse of hold time, the sensor switches off the light when no motion is detected.

4. Dimension (mm)

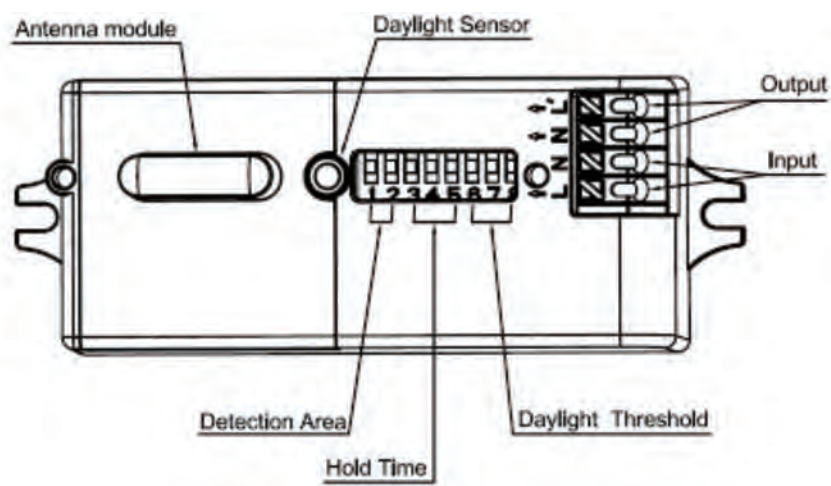


5. Wiring



*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

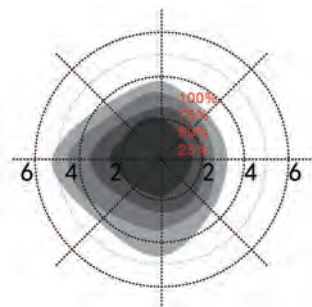
6. Structure



7. Radiation Pattern

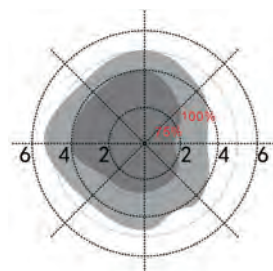
1) Ceiling mounting

Ceiling mounted height: 3m
Sensitivity: 100%/75%/50%/25%

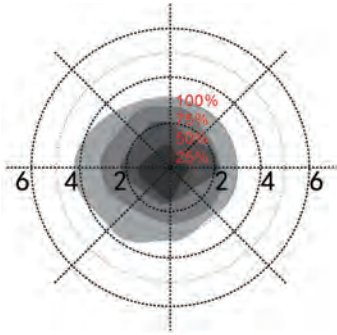


Normal moving (Speed:1m/s)

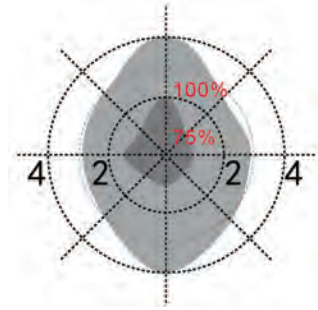
Ceiling mounted height: 6m(*)
Sensitivity:100%/75%



Normal moving (Speed:1m/s)



Slow moving (Speed: 0.3m/s)

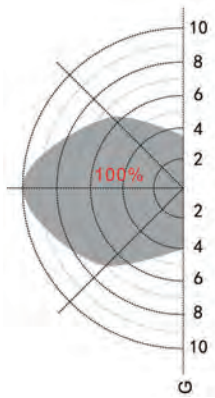


Slow moving (Speed: 0.3m/s)

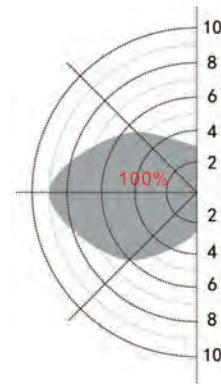
*Only 100%/75% detection sensitivity is workable when installed at 6m mounting height. 25%/50% sensitivity is not able to detect motion signal.

2) Wall mounting

Horizon mounted height: 2m
Sensitivity: 100%



Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)

8. DIP Switch Setting

Detection Area (Sensitivity)

	1	2
100%	ON	ON
75%	-	ON
50%	ON	-
25%	-	-

Hold Time

	3	4	5	
I	ON	ON	ON	5S
II	-	ON	ON	30S
III	ON	-	ON	90S
IV	-	-	ON	5min
V	ON	ON	-	20min
VI	-	-	-	30min

Daylight Threshold

	6	7	8	
I	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
III	-	ON	-	30Lux
IV	ON	-	-	50Lux
V	-	-	-	Disable*

*Disable” means the daylight sensor not work. it will turn on light once motion is detected regardless of ambient light .

9. Override Function

Quick switch ON/OFF 3 times within 2sec to override sensor function. Lights will switch on all the time. Power off and on again to recover sensor function.

10. Initialization

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

11. Factory Setting

Detection area: 100%, Hold Time: 5S, Daylight Sensor: Disable

12. Application Notice

- 1) The sensor should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switch.
- 2) The sensor which installed in the plastic and glass lampshade will reduce the sensitivity. For every 3mm increase in thickness, the sensitivity will be reduced by 20%.
- 3) The light sensitivity threshold is in a sunny environment, no shadow and ambient light diffuse reflection. Ambient lux level will be different in different environment, weather, climate, time-of-day and season.
- 4) The parameters of the sensor may need to be reconfigured in different installation environments.
- 5) This sensor is for indoor use only. It will affect the waterproof effect for outdoor use. Wind, rain, and moving objects around will cause false triggering.
- 6) The distance between any inductive sensors should be greater than 3m.
- 7) Do not place the sensor close to high-density objects such as metal, glass, concrete walls, etc, false triggering could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact the manufacturer for technical support.
- 8) Please ensure that there are no moving signals around the sensor, such as fan, DC motor, sewer pipe, air outlet, etc., the sensor may generate false trigger.
- 9) You are advised to test 5 samples before mass application of sensor in a new lighting project.
- 10) Due to continuous improvement, the contents of this instruction could be changed without prior notice.
- 11) If the sensor is built under metal board, make sure the sensor surface should be seamless close to the metal plate without space.

