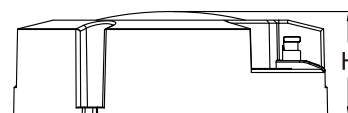
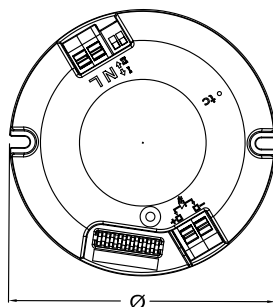
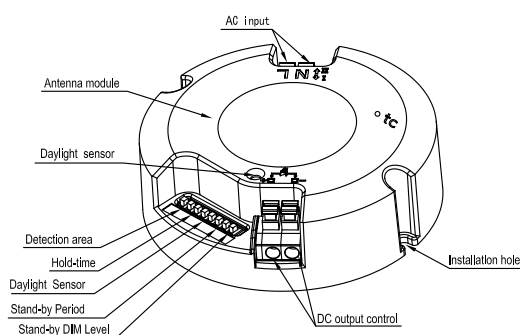




Feature

- Stand-by power < 0.5W.
- Stand-by dimming level is optional, 10% / 25%.
- Integration of microwave motion sensor, daylight sensor and LED power supply.
- Automatic switching and dimming based on motion and light level.
- Constant current can be set via DIP switch.
- Compact size makes the drivers suitable to fix within most LED ceiling lights.
- Detection area, time delay and daylight threshold can be precisely set via DIP switch.

Technical Specifications



Unit: mm

Model No.	MLC28C-PE	MLC18C-P3	MLC16C-PE
Operating voltage	220~240Vac,50/60Hz	220~240Vac,50/60Hz	220~240Vac,50/60Hz
Output constant current	450/550/600/700mA, set via DIP switch	350mA	300mA
Output voltage	22-40Vdc(450/550/600mA/700mA)	28-52Vdc	28-52Vdc
Efficiency	≥ 84% (@Full load)	≥ 84% (@Full load)	≥ 84% (@Full load)
Power factor	>0.9 (@Full load)	>0.9 (@Full load)	>0.9 (@Full load)
HF system	5.8Ghz±75Mhz, ISM wave band	5.8Ghz±75Mhz, ISM wave band	5.8Ghz±75Mhz, ISM wave band
Transmitting power	< 0.5mW	< 0.5mW	< 0.5mW
Power consumption	≤ 0.5W (standby)	≤ 0.5W (standby)	≤ 0.5W (standby)
Detection range	4m(@ 3m mounting height)	4m(@ 3m mounting height)	4m(@ 3m mounting height)
Detection area	50%/ 100%	50%/ 100%	50%/ 100%
Hold time	5s/ 90s/ 3min/ 10min	5s/ 90s/ 3min/ 10min	5s/ 90s/ 3min/ 10min
Stand-by period	0s/ 30s/ 10min/ +∞	0s/ 30s/ 10min/ +∞	0s/ 30s/ 10min/ +∞
Daylight sensor	5lux/ 15lux/ 50lux/ Disable	5lux/ 15lux/ 50lux/ Disable	5lux/ 15lux/ 50lux/ Disable
Stand-by DIM level	10%/ 25%	10%/ 25%	10%/ 25%
Mounting height	6m Max.	6m Max.	6m Max.
Motion detection	0.5~3m/s	0.5~3m/s	0.5~3m/s
Detection angle	150° (Wall installation) 360° (Ceiling installation)	150° (Wall installation) 360° (Ceiling installation)	150° (Wall installation) 360° (Ceiling installation)
Working temperature (Ta)	-25℃ ~ 45℃	-25℃ ~ 50℃	-25℃ ~ 50℃
Size (ø x H)	82x28.5mm	68x28.5mm	68x28.5mm
IP rating	IP20	IP20	IP20

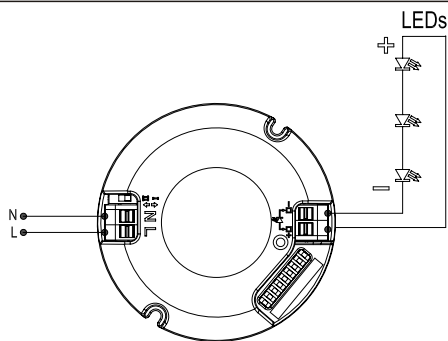
General Guidelines for Installation



- 1, Please ensure that the electricity supply is switched off before installing or servicing the product.
- 2, The product should not be modified in any way. Any modifications made to this product will immediately invalidate any warranties issued.
- 3, The company does not accept responsibility for any consequences resulting from unauthorized modification of the product.
- 4, Microwaves cannot pass through metal or brick walls if thicker than 20cm. They will pass through thinner walls but there will be some attenuation.

Output Current Selection

Wiring scheme



Sensor Data Setting

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

ON		1	
I	ON	100%	
II	-	50%	

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

ON		2	3	
I	ON	ON	5S	
II	-	ON	90S	
III	ON	-	3min	
IV	-	-	10min	

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

ON		4	5	
I	ON	ON	Disable	
II	-	ON	50Lux	
III	ON	-	15Lux	
IV	-	-	5Lux	

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.
50lux: twilight operation, 15lux, 5lux: darkness operation only.

ON		6	7	
I	ON	ON	0s	
II	-	ON	30s	
III	ON	-	10min	
IV	-	-	+∞	

Corridor function (Stand-by period)

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to "+∞", the low light is maintained until motion is detected.
When set to "0s", the light will turn off after hold time.

ON		8	
I	ON	10%	
II	-	25%	

Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.

FAQ

Question	Cause	Remedy
The load will not illuminate.	Incorrect daylight sensor setting selected.	Adjust setting.
	Load has failed.	Replace load.
	Power is switched off.	Switch on
The load is permanently illuminated.	Continuous movement in the detection area.	Check detection area setting.
	The lamp (containing sensor) is installed in an area too close to reflective surfaces, i. e. metal, glass or concrete walls.	1, Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces. 2, Reduce sensitivity (detection area).
The load will not illuminate despite movement.	Speed of moving object is not in the range of 0.5~3m/s or the detection radius is too small.	Check detection area setting.