

FEATURE

- Conform to ERP standard, micro-power consumption.
- 5.8GHz ISM brand, can be batch RED certification.
- Isolated, Flicker-free, Driver+sensor 2 in 1
- With corridor function , light priority function, suitable for all kinds of use scenes
- Compact size, easy to install inside the lamps and lanterns.
- All parameters can be adjusted via DIP switch.

TECHNICAL SPECIFICATIONS

Model No.	MLC28C-DP2
Operating voltage	220-240Vac, 50/60Hz
Input current	170mA
Output constant current	300/450/500/550/600/700mA, set via DIP switch
Output power max.	28W
Output voltage	9-40Vdc
Efficiency	≥86% , 230VAC/Max Load
Power factor	≥0.90, 230Vac/Max Load
HF system	5.8Ghz±75Mhz, ISM wave band
Transmitting power	<1mW
Power consumption	<0.5W (stand-by)
Detection area	25%/50%/75%/ 100%
Hold time	5s/1min/5min/10min
Stand-by period	0s/1min/ 10min/ +∞
Daylight sensor	5Lux/25Lux/50Lux/Disable
Daylight sensor open/close	5Lux/50Lux 25Lux/100Lux 50Lux/150Lux Note: Stand-by period must be set to "+∞" to use daylight priority function.
Stand-by dimming level	15%
Mounting height	3m Typical Value (6m Max)
Motion detection	Ceiling mounting 3m: 0.3m/s ≥4m, 1m/s ≥2.5m Wall mounting 2m: 0.3m/s ≥10m, 1m/s ≥5m
Working temperature (Ta)	-25°C~+50°C Humidity:85%
Size (Ø x H)	Ø86x31.5mm
Certificate	CE, RED, SAA
IP rating	IP20

INITIALIZATION

- When power on, the product automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the product is not able to detect moving signals.

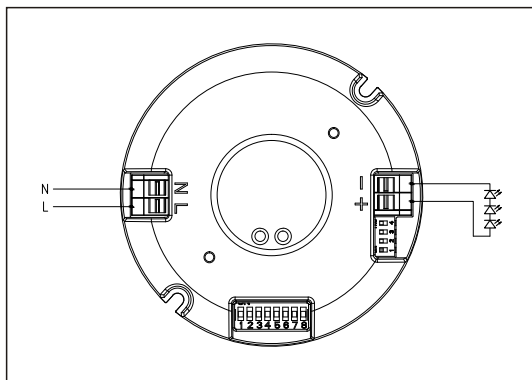
FACTORY SETTING

- Sensitivity: 100%; Hold Time: 5S; Stand-by period: 0S; Daylight Sensor: Disable.

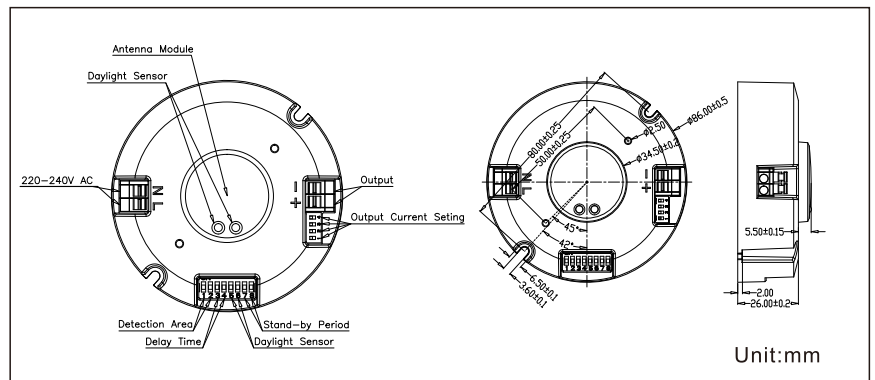
APPLICATION NOTICE

1. The product should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switches.
2. The microwave sensor has good penetration ability to plastic and wooden objects, but the front and near the microwave antenna can not be equipped with metal accessories, metal shell and glass shell, otherwise it will affect the transmission and reception of the microwave antenna.
3. It is recommended that microwave sensors be installed at a distance of more than 2m, and that they be installed at a distance of more than 2m away from switches, routers and other wireless devices to avoid radio interference, for 5G WIFI is greater than 2 m.
4. The antenna surface of the microwave sensor is far away from the input AC and output DC to avoid low/high frequency signals interfering with the normal operation of the microwave antenna.
5. Should avoid long-term vibration equipment or moving objects around the microwave sensor, the vibration signal generated will be regarded as mobile signal trigger induction, so the installation position should be far away from large metal equipment, ventilation pipes, air conditioning outlets, exhaust vents, smoke exhaust machine and other scenes; If a pet passes through the detection area, the sensor may be triggered.
6. This product is suitable for indoor installation, when semi-outdoor or outdoor installation, wind, rain may be regarded as moving signal trigger induction; When the sensor is installed in metal lamps, metal reflective surface or narrow closed environment, the microwave will be reflected many times and trigger by mistake. Please reduce the sensitivity of the sensor or contact the manufacturer for technical support.
7. If wall mounting, the detection distance of microwave sensor will be greatly increased, please reduce the sensitivity or contact the manufacturer for technical support.
8. Due to continuous improvement, the contents of this instruction could be changed without prior notice.
9. Sensitivity area is related to moving speed of objects, size of moving objects, mounting height, mounting angle, working environment, reflecting materials and etc.
10. The value of daylight sensor is in a sunny environment with no shadows and ambient light diffuse reflection conditions. The illuminance values detected by the product may different in different environment, at different times, in different seasons, and in different climates.

WIRING



STRUCTURES & DIMENSION



DIP SWITCH SETTINGS

ON ↑ OFF ↓	Output current				Detection Area			Hold Time			Daylight Sensor			Stand-by period			
		1	2	3	4		1	2		3	4		5	6		7	8
	300mA	-	-	-	-	100%	ON	ON	5s	ON	ON	5Lux	ON	ON	0s	ON	ON
	450mA	-	-	ON	ON	75%	ON	-	1min	ON	-	25Lux	ON	-	1min	ON	-
	500mA	-	ON	ON	-	50%	-	ON	5min	-	ON	50Lux	-	ON	10min	-	ON
	550mA	-	ON	ON	ON	25%	-	-	10min	-	-	Disable	-	-	+ ∞	-	-
	600mA	ON	-	ON	ON												
	700mA	ON	ON	ON	ON												

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.



~~CE UK emc~~

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Output power max.	
Output voltage	
Efficiency	
Power factor	
HF system	
Transmitting power	
Power consumption	
Detection area	
Hold time	
Stand-by period	
Daylight sensor	
Daylight sensor open/close	
Stand-by dimming level	
Mounting height	
Motion detection	
Working temperature (Ta)	
Size (Ø x H)	
Certificate	
IP rating	

- When power on, the product automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the product is not able to detect moving signals.

■ Sensitivity: 100%; Hold Time: 5S; Stand-by period: 0S; Daylight Sensor: Disable.

MI230913A0

△				产品名称	一体化电源		物料名称	说明书		视角				
△				产品型号	MLC28C-DP2		物料编号	1050020001375		版本	A0	单位	mm	
△				设计	陈林英	20230915	材料		数量	1	页次	1	比例	1:1
序号	变更内容		变更人	日期	审核		深圳迈睿智能科技有限公司 ShenZhenMerrytekTechnologyCO.,LTD							
路径	2-辅助设计\1-包装类\MLC一体化电源\MLC28C-DP2				批准									

表格编号: MRT-KF-003 R:A/0