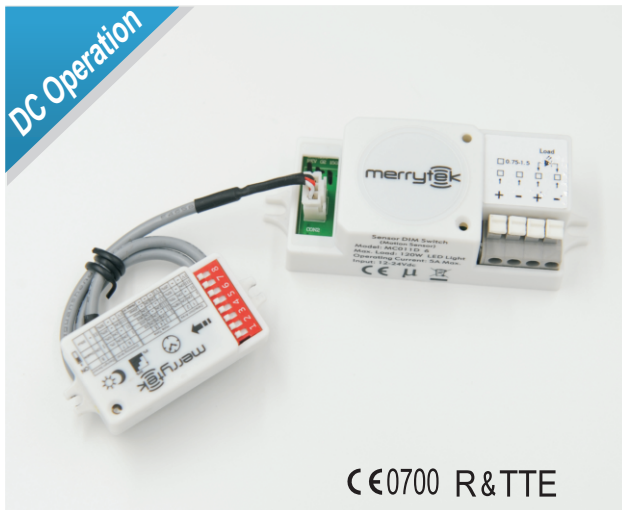


DC Operation MC011D6



Introduction

- Automatic switching and dimming based on light level and motion.
 - Detachable design of microwave and light control.
 - 4-hole press-in terminal (+, -, +', -'), easy assembly.
 - Compact size, suitable to fix within most luminaires.
 - Sensor data can be simply set via DIP switch.
- Wide detection area, range up to 16m in diameter.

MC011D6 is innovation and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. MC011D6 has the same specification, except the different DC input range.

The sensors provide a simple and cost-effective dimming solution. With DC operation voltage from LED driver, no need extra power from power line. Without DALI or 1-10V dimmable LED drivers, they are suitable for most common LED drivers and achieve 2-step dimming function. Particularly suitable for price sensitive luminaires.



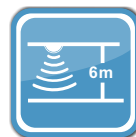
Max.8M



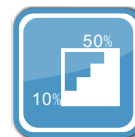
Light Sensor



Hold Time
5s-20min



Mounting Height
6m Max.



Automatic
Dimming



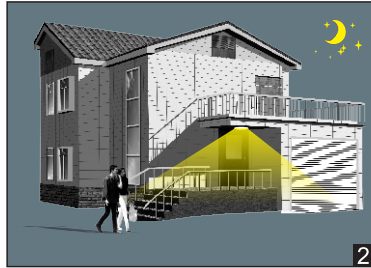
5 Years
Guarantee

ON-OFF Function

With DC operation voltage from LED driver, the sensors can match up with most common LED drivers and achieve automatic switching based on motion and ambient light level.



1 With sufficient ambient light, the sensor does not switch on the lamp.



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



3 After hold time, the lamp gradually dims down if no motion detected.

2-step Dimming Function

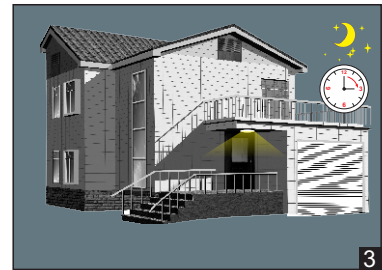
When used in combination with common constant current LED driver, the sensors can achieve 2-step dimming function, 100%---> low light (Never turn off). They are particularly suitable for use in corridors, stairwells and underground passages where low light levels are maintained until motion is detected.



1 No motion detected, the lamp remains at a low light level all the time.

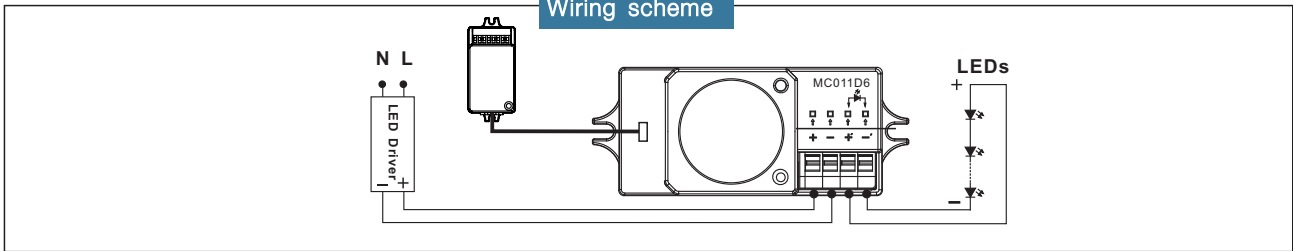


2 With insufficient ambient light, the sensor switches on the lamp when motion is detected.

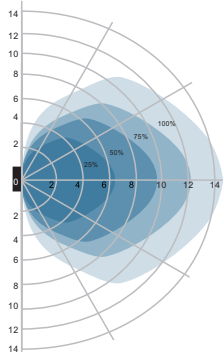


3 After hold time, the lamp gradually dims to a low light (preset in the sensor) if no motion detected.

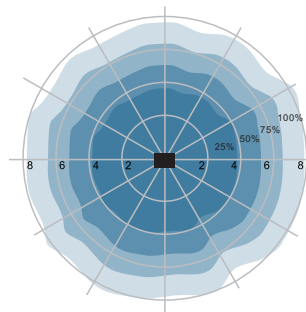
Wiring scheme



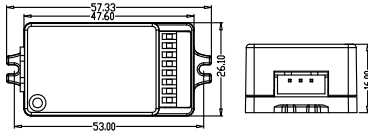
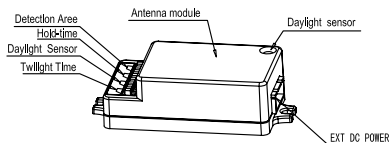
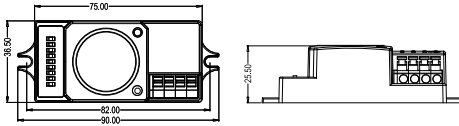
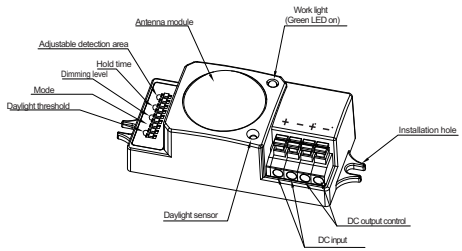
Detection Pattern



Wall mounting pattern (Unit: m)
Suggested installation height: 1-1.8m



Ceiling mounting pattern (Unit: m)
Suggested installation height: 2.5-6m



MC011D6

Operating voltage	12-24Vdc
Rated load	Max. 120W LED light
Operating current	5A max
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(standby), <1W(operation)
Detection zone	Max.(D x H): 16m x 6m
Detection sensitivity	25% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min /20min/Always on
Daylight sensor	30lux / Disable
Dimming level	0% / 10% / 20% / 30%
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150°(wall installation), 360°(ceiling installation)
Operating temperature	-25°C~70°C
IP rating	IP20

Setting

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

	1	2	
ON ↑	I ON	ON	100%
	II -	ON	75%
	III ON	-	50%
	IV -	-	25%

	3	4	5	
ON ↑	I ON	ON	ON	10S
	II -	ON	ON	30S
	III ON	-	ON	90S
	IV -	-	ON	3min
	V ON	ON	-	20min
	VI -	-	-	Always on

	6	7	
ON ↑	I ON	ON	0%
	II -	ON	10%
	III ON	-	20%
	IV -	-	50%

	8	
ON ↑	I ON	Disable
	II -	30lux

Detection area

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

Hold time

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

Dimming level

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

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.

30lux: twilight operation.

Note that daylight sensor is active only when lamp totally switches off.