

MICROWAVE MOTION SENSOR
DIMMING FUNCTION / DETACHABLE VERSION
FOR LED TRI-PROOF LIGHT & LED BATTEN



INTRODUCTION

Smart Sparky Batten Sensor is an innovative motion detector with 5.8GHz HF system. Motion can be detected through plastic, glass and thin non-metal materials.

This sensor is particularly designed for the lights which have limited space eg - Tri-Proof lights and LED Battens. The mini motion detector is separated from the power component making it easier to fix the motion detector to the surface of Tri-Proof light with power component hidden behind.

As the height of the detector is only 13mm max, there is no shadow when the lamp is switched on.

- UNIQUE SPLIT DESIGN MAKES IT SUITABLE TO FIX WITHIN LAMPS WITH LIMITED SPACE
- AUTOMATIC DIMMING WHEN USED IN COMBINATION WITH 0-10V DIMMABLE LED DRIVERS OR BALLASTS
- BUILT-IN ADJUSTABLE DAYLIGHT SENSOR

- DETECTION AREA, TIME DELAY AND DAYLIGHT THRESHOLD CAN BE PRECISELY SET VIA DIP SWITCH
- USING PLUGGABLE DESIGN BETWEEN MOTION DETECTOR AND POWER COMPONENT ENSURES EASE TO INSTALL & MAINTAIN



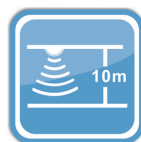
Max.8M



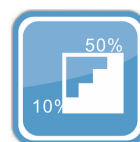
Light Sensor



Hold Time
5s~+∞



Mounting Height
10m Max.

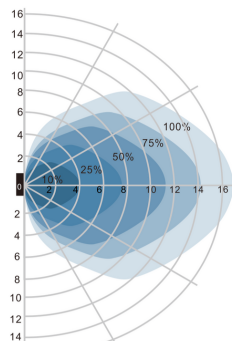


Automatic
Dimming

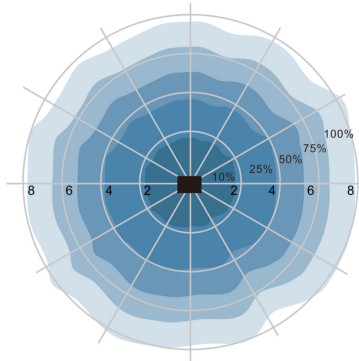


5 Years
Guarantee

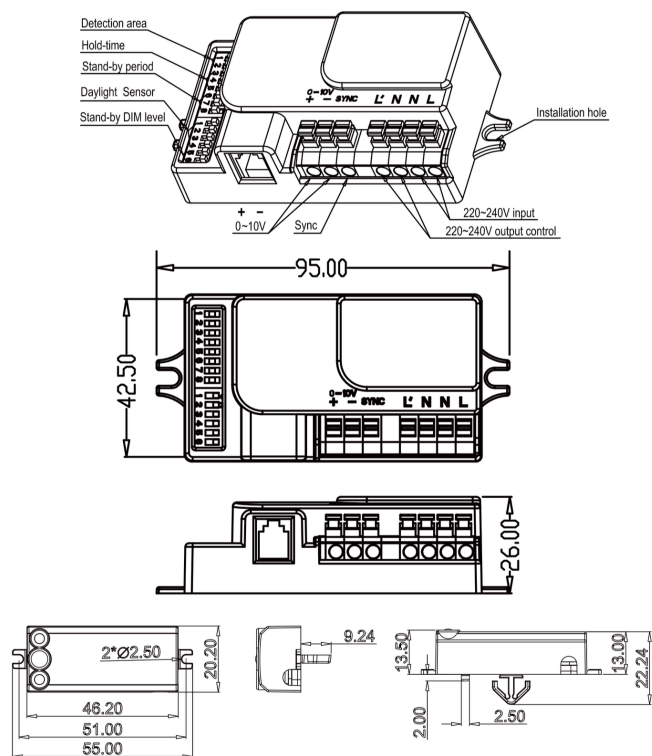
DETECTION PATTERN



WALL MOUNTING PATTERN (UNIT: M)
SUGGESTED INSTALLATION HEIGHT: 1-1.8M



CEILING MOUNTING PATTERN (UNIT: M)
SUGGESTED INSTALLATION HEIGHT: 2.5-8M



Operating voltage	120/277Vac, 50/60Hz
Rated load	120Vac: 3.6A Fluorescent/LED 277Vac: 3.4A Fluorescent/LED
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	<0.5W (standby)
Detection zone	6m (@3m mounting height)
Detection sensitivity	25%/ 50%/ 75%/ 100%
Hold time	5s/ 30s/ 90s/ 3min/ 20min/+∞
Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Stand-by period	0s/5s/5min/10min/30min/1h/+∞
Stand-by dimming level	10%/20%/30%/50%
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150°(wall installation) 360°(ceiling installation)
Operating temperature	-35°C~70°C
IP rating	IP20

SETTING

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

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

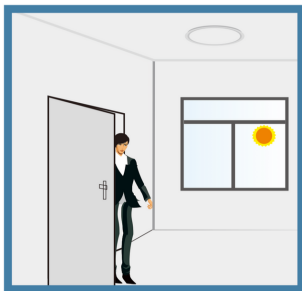
DETECTION AREA

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

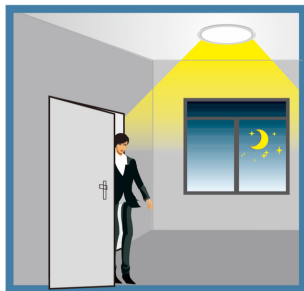
DIMMING FUNCTION

3-STEP DIMMING FUNCTION

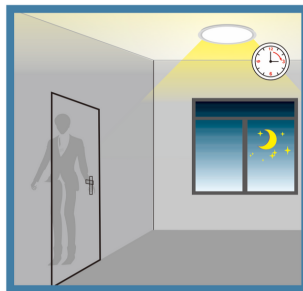
When used in combination with 0-10V dimmable LED drivers and ballasts, the sensors can achieve a 3-step dimming function. 100% --> low light --> off. In-built adjustable daylight sensors ensure a cost effective sensor with easy installation.



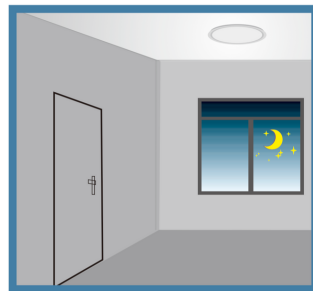
With sufficient ambient light, the sensor does not switch on the lamp



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



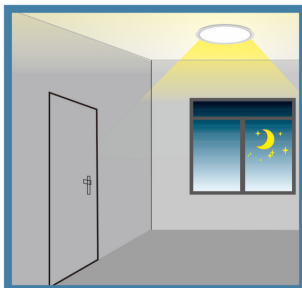
After hold time, the sensor dims the lamp at a low light level if no new motion is detected



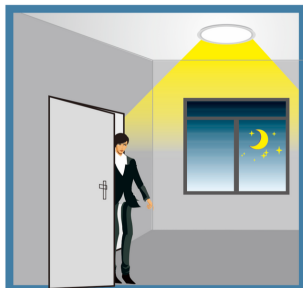
After stand-by period, the sensor switches off the lamp if no motion is detected in its detection zone

2-STEP DIMMING FUNCTION

The sensors can also provide a 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.



No motion detected, the lamp remains at a low light level at all times

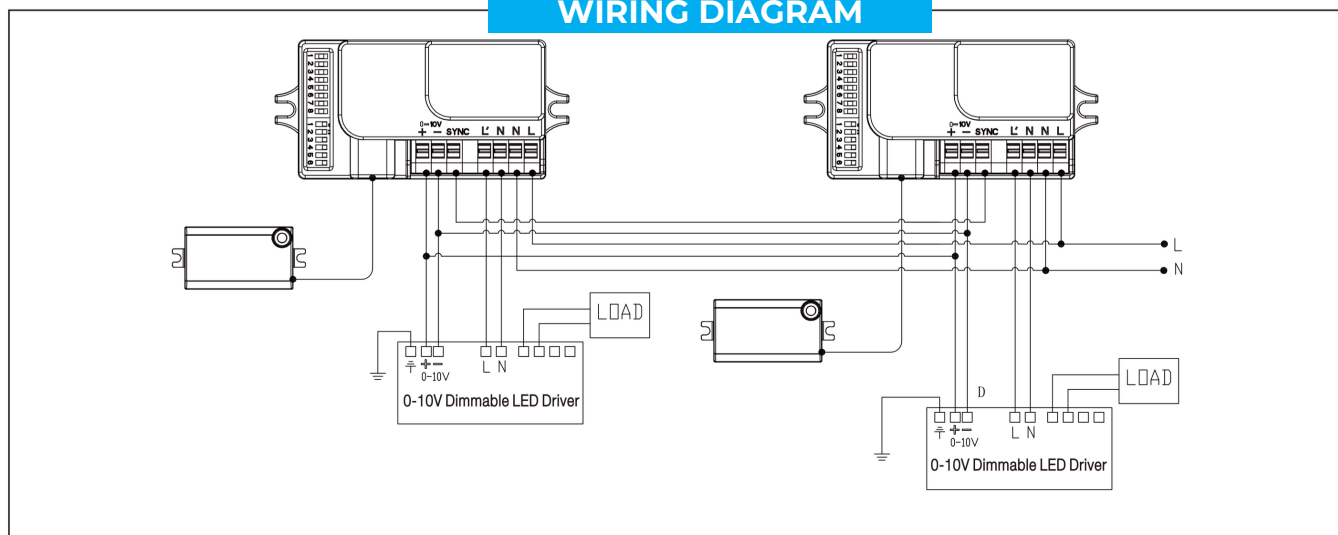


No motion detected, the sensor brightens the lamp to 100% illumination




After the hold time, the sensor dims the lamp at the preset low light level if no further motion is detected

WIRING DIAGRAM






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


HOLD TIME

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

		6	7	8	
ON ↑ 	I	ON	ON	ON	0S
	II	-	ON	ON	5S
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞


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 movement. When set to DISABLE mode, the low light is maintained until motion is detected.

		1	2	
ON ↑ 	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

STAND-BY DIMMING LEVEL

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

		3	4	5	6	
ON ↑ 	I	ON	ON	ON	ON	5Lux
	II	-	ON	ON	ON	15Lux
	III	ON	-	ON	ON	30Lux
	IV	-	-	ON	ON	50Lux
	V	ON	ON	-	ON	100Lux
	VI	ON	ON	ON	-	150Lux
	VII	-	-	-	-	Disable

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 the ambient light level.

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

