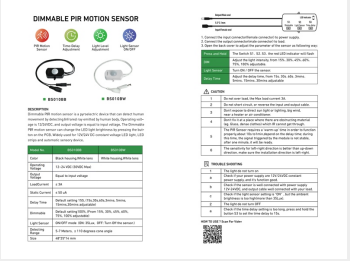
5-25V motion sensor and light sensor with DC Jack

A smart little motion-sensor and a light sensor with a DC plug. The sensor has 110 degree angle and 5-7 m range. It comes in black and white colors.



Smart small dimmable motion sensor and light sensor with DC connectors on the input and output, allowing it to connect to our power supplies. If you want to use DC connectors with screw terminals, you need DC connectors with a 5.5*2.1mm inner diameter.

As soon as the sensor detects motion, it will activate the power on the output with the same voltage as the input. 12V in = 12V out.

The sensor has a 110-degree angle and a range of 5-7 meters.

The light sensitivity is not adjustable but activates at 35 lux. With a single press, the light sensor can be disabled, so it reacts to motion regardless of whether it is dark or bright. The time it stays on can be adjusted in increments:

1: 15 seconds
2: 30 seconds
3: 60 seconds
4: 3 minutes
5: 5 minutes
6: 15 minutes
7: 30 minutes

The sensor can also be dimmed in increments:

1: 100%
2: 75%
3: 60%
4: 45%
5: 30%
6: 15%

Dimensions

Length 48mm
Width 25mm (edge to screws is 5.5mm, totaling 31.5mm)
Thickness 14mm
Thickness including dome: 22mm

Buy online at:

www.matronics.eu/606610

Specifications

DC connector	2.1mm inner diameter
Max current	3A
Voltage	5-25V
Sensor angle	about 110 degree
Sensor distance	5-7m or under (adjustable)
Power consumption	50uA



White
SKU 606610



Black
SKU 606610-S

Product pictures

DIMMABLE PIR MOTION SENSOR

PIR Motion Sensor | Time-Delay Adjustment | Light Level Adjustment | Light Sensor ON/OFF



■ BS010BB

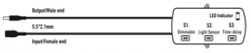


■ BS010BW

DESCRIPTION

Dimmable PIR motion sensor is a pyroelectric device that can detect human movement by detecting Infrared ray emitted by human body, Operating voltage is 12/24VDC, and output voltage is equal to input voltage, The Dimmable PIR motion sensor can change the LED light brightness by pressing the button on the PCB, Widely used for 12V/24V DC constant voltage LED light, LED strips and automatic sensory device,

Model No.	BS010BB	BS010BW
Color	Black housing,White lens	White housing,White lens
Operating Voltage	12~24 VDC (30VDC Max)	
Output Voltage	Equal to input voltage	
LoadCurrent	≤ 3A	
Static Current	≤ 50 uA	
Delay Time	Default setting 15S. (15s,30s,60s,3mins, 5mins, 15mins,30mins adjustable)	
Dimmable	Default setting100%, (From 15%, 30%, 45%, 60%, 75%, 100% adjustable)	
Light Sensor	ON/OFF mode (ON: 35Lux, OFF: Turn Off the sensor.)	
Detecting Range	5-7 Meters, ≤ 110 degrees cone angle	
Size	48*25*14 mm	



1. Connect the input connector(female connector) to power supply.
2. Connect the output connector(male connector) to load.
3. Open the back cover to adjust the parameter of the sensor as following way:

Press and Hold	The Switch S1、S2、S3、the red LED indicator will flash
DIM	Adjust the light intensity, from 15%、30%、45%、60%、75%、100% adjustable.
Light Sensor	Turn ON / OFF the sensor.
Delay Time	Adjust the delay time, from 15s、30s、60s、3mins、5mins、15mins、30mins adjustable

⚠ CAUTION

1	Do not over load, the Max load current 3A.
2	Do not short circuit, or reverse the input and output cable.
3	Don't expose to direct sun light or lighting, big wind, near a heater or air conditioner.
4	Don't fix it at a place where there are obstructing material (eg. Glass, dense clothes) which IR cannot get through.
5	The PIR Sensor requires a 'warm-up' time in order to function properly,about 10s to1min,depend on the delay time; during this time, the signal triggered by the module is not stable, after one minute, it will be ready.
6	The sensitivity for left-right direction is better than up-down direction, make sure the installation direction is left-right.

TROUBLE SHOOTING

1	The light do not turn on
a	Check if your power supply are 12V/24VDC constant power supply, and it's function good.
b	Check if the sensor is well connected with power supply 12V-24VDC, and output cable well connected with your load.
c	Check if the light sensor setting is "ON"，but the ambient brightness is too high(more than 35Lux).
2	The light do not turn OFF
a	Check if the time delay setting is too long, press and hold the button S3 to set the time delay to 15s.

HOW TO USE ? Scan For Video