

# BM22S518XXX

## PIR Motion Sensor

### Datasheet

Document information	
<b>Title</b>	BM22S518XXX PIR MOTION SENSOR Datasheet
<b>Document type</b>	Datasheet
<b>Document number</b>	SL-22052279
<b>Version and date</b>	V1.01 22-May-2022
<b>Disclosure restriction</b>	Public

### Revision History

Revision	Description	Approved	Date
V1.01	Initial Release	Tony	20220522

## Contents

1. Product Description .....	3
2. Product Features.....	3
3. Product Applications .....	4
4. Electrical Parameters.....	4
5. Product Size .....	5
6. Lux & Time & Sens Adjustment Knob .....	5
7. Wiring Schematic.....	5
8. Optional Models .....	5

## 1. Product Description

The BM22S518XXX human body sensor is developed based on passive infrared detection technology and consists of an optical lens (Fresnel lens), a passive infrared sensor (PIR Sensor) and a control circuit. By sensing the movement of the human body in the coverage area and triggering the circuit to be turned on or off, the control of the external load circuit is realized. Widely used in intelligent light control, garden lights, security alarm systems, ventilation systems, automatic doors, visitor notifications, etc.

Human body sensor lighting automatic control area:

When someone enters the sensing range of the sensor, the sensor detects changes in the infrared spectrum of the human body, and the switch automatically turns on . After the person leaves the sensing range, the switch delays and automatically turns off . Make the lights turn on when people arrive, and turn off the lights when people leave, safe and energy-saving



## 2. Product Features

- ◆ Optional AC110v or AC220v power supply;
- ◆ Standby power consumption (1w);
- ◆ Sensitivity, light sensitivity and delay time can be manually adjusted;
- ◆ Induction range level 180° / 12 m;
- ◆ Protection grade ip 65;
- ◆ Meet CE / UL Standard

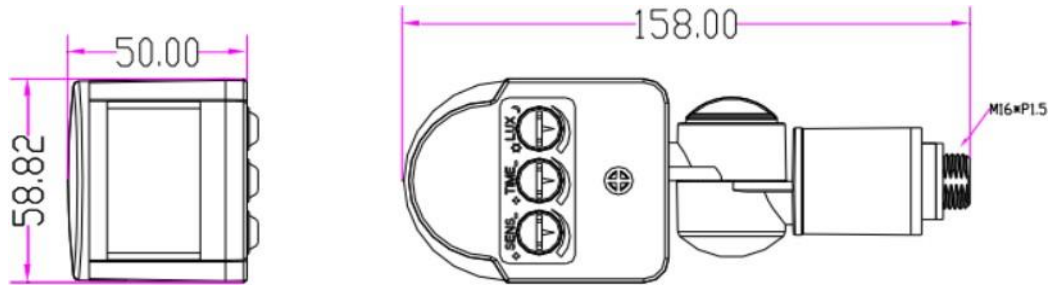
### 3. Product Applications

- ◆ Intelligent light control;
- ◆ Courtyard, garden lights;
- ◆ Security alarm system;
- ◆ Ventilation system;
- ◆ Automatic door;
- ◆ Access control reminder

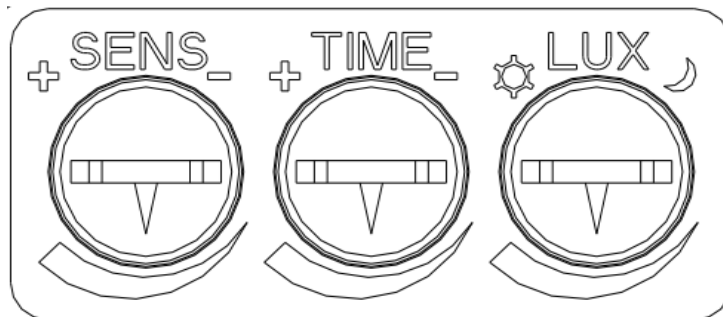
### 4. Electrical Parameters

Item	Specification	Remark
Product Category	Passive Infrared Sensor	
Principle	Passive Infrared Detection	
Operating Voltage	110V AC/60Hz	BM22S518US1
	220V AC/50Hz	BM22S518EU1
PIR Power consumption	≤1.0W	
Detection Range & Angle	120° (@25°C, 85%RH, Installation Height:2M)	
Detection Distance	MAX 12M (@25°C 85%RH Install Height:2M)	
Rated Load	MAX:100W LED(PF>0.9)	The maximum peak surge current (IFSM)<30A
Lux adjustment	0— 1000LUX (SVR Control)	
Time adjustment	8s±5s - 12min±2 min (SVR Control)	
Input Cable	UL 1007, 20AWG / Length: 90mm±10mm	
Output Cable	UL 1007, 20AWG / Length: 90mm±10mm	
Installation Height	1.5--2.5M	
Trigger shielding time	3±0.5Sec	The interference shielding time after the load is turned off. (During the shielding time, triggering is invalid.)
Warm Up Time	About 30±10 Sec	
Operating Temperature Range & humidity	-10°C~40°C/ 85%RH	
Storage Temperature	-20°C~60°C	
Protection Grade	IPX5	
Security Grade	Class II	
Manual function	N/A	
Safety Standard	UL	

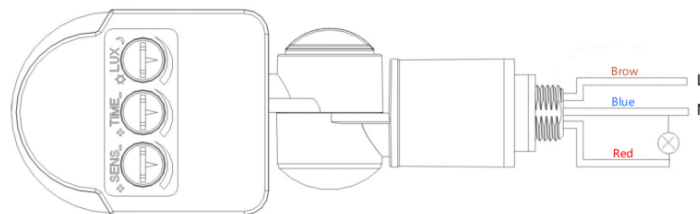
## 5. Product Size



## 6. Lux & Time & Sensitivity Adjustment Knob



## 7. Wiring Schematic



## 8. Optional Models

Module No 型号	Specification 规格
BM22S518EU1	Operating Voltage: 220V AC/50Hz
BM22S518US1	Operating Voltage: 110V AC/60Hz