

# Specification

Product series:	High-mounting	PIR	motion	sensor	(casambi+ON/OFF	
Flouuct series.	version)			2		
Product model:	MSA227S IR B1	6				
Product version:	V1.0					
					6	

Version	Release/ change Date	Publishing	
V1.0	2024.09.05	Jacky	

# [Product description]

MSA227S IR B1 is a high-mounting PIR motion sensor with daylight detection function and casambi wireless communication. Combined with the unique software algorithm of Merrytek, it can accurately detect human movements in almost all high-mounting scenario to trigger smart scene application in warehouse, lobby, workshop etc.

# [Product Feature]

- PIR motion detection
- Connect to casambi BLE ecosystem
- Accurate motion detection with one channel ON/OFF output and casambi communication
- Daylight sensor detection available
- Detection area, hold time can be set by casambi app
- Max detection range: 8-10m in diameter
- 8m max mounting height
- Max loading capacity :800w resistive loading and 400w inductive loading
- Warehouse, workshop and lobby motion detection highly recommended
- Flush mounting and surface mounting available



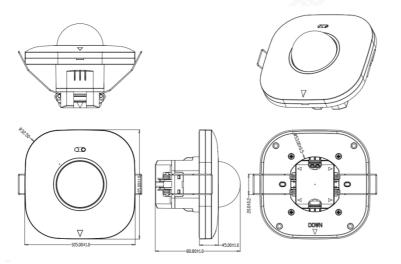
# [Dimension]

- Product size: 105x105x90.8mm(flush mounting)、105x105x65.8mm(surface mounting)
- Connection interface: 4-pin terminal

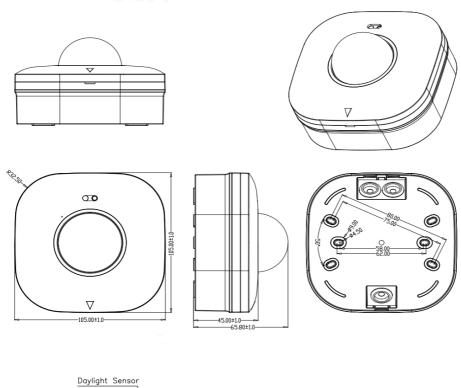
# [Parameter]

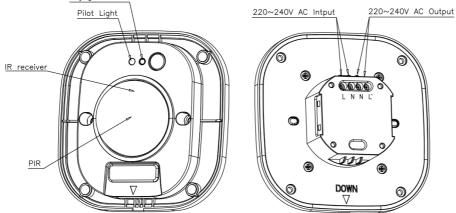
Input/Out put	Input voltage	100-240Vac		
	Rated voltage	230V ac		
	Working current	20mA max		
	Power consumption	≤0.5W @230V AC		
	Output signal	1 channel ON/OFF+casambi BLE		
	Function	PIR motion detection+ daylight sensor		
	Detection Area	Casambi app or MH10 remote setting: 100%/75%/50%/25%		
	Sensor Hold Time	MH10 remote setting: 2S/30S/60S/3Min/5Min/20Min/30Min		
Sensor	Daylight Sensor	0-1200lux		
	Radius detection			
parameter	range(based on 100%	4-5m@25 $^\circ\!$		
	sensitivity)			
	Remote control	Available		
	Mounting height	2-8m, typical value:6m		
	Drill hole	Φ55mm		
Application	Working temperature	-25 $^\circ C+$ 50 $^\circ C$ (detection range might differ based on different		
environme		temperature )		
nt	Storage temperature	-40°C~+80°C		
	Warranty	3 year (available based on product quality)		
	Certificate	Compliant to CE		
Certificate	Environmental	Compliant to RoHS		
Standard	requirements			
IP rating		IP54		
"N/A" means	s not available			

# 【Dimension and Function diagram】 Flush mounting

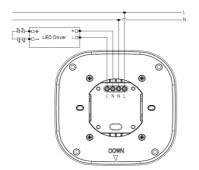


## Surface mounting





# [Wiring instruction]





#### Wiring layout suggestion:

1. LN terminal stands for AC input, L'N' stands for AC output, please wiring correctly

2. One sensor's max loading capacity is 800w resistive loading and 400w inductive loading for one single load.if you

want connect more load in one loop, we recommend to add an AC contactor in our output LN terminalto avoid

momentary surge overload.

### [Initialization]

When powered on, sensor indicator will turn off after flashing for 10S and will not detect moving signal during this time.

After 10S, you can use our MH10 remote or casambi app to adjust detection area hold time and daylight sensor etc

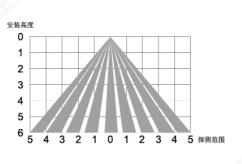
parameter.

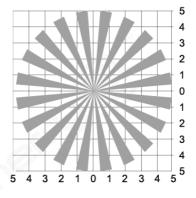
## [Factory setting]

Detection Area:100%, Hold Time: 2s, Indicator:ON

# [Detection radiation]

MSA227S IR B1 is highly recommended ceiling flush mounting and its detection radiation is as below shows:





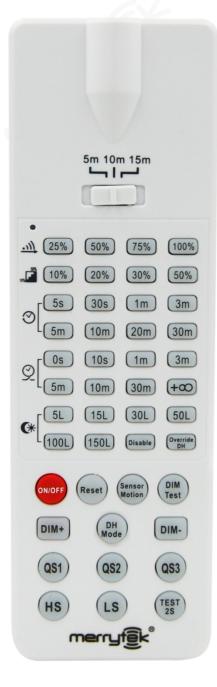
# [Detection Signal]

The product detects human moving signals and below is a description of the moving signals:

• Moving signal: detect the human significant moving (walking) in the detection area.

【Casambi app】			
23:57 🖴 く 返回 MSA227S IR 智能开关	.ul ? 283		
□ 未在使用中	>		
控制电源开关用于开启或关闭灯具时,或其 开启时的状况。 人体存在感应器	迅速关闭并重新		
未在使用中	>		
已启用			
控制检测到有人或无人时的状况。			
● 日光感应器	>		
已启用			
感应器测量亮度级,日光关联场景可配置为: 以自动调整相关灯具的亮度。	遵循感应器组,		
参数		indicator: ON/OFF	
indicator	ON >	coverage range: 25%/50%/75%/100%	
coverage range	100% >	A	
S 替换设备	>		
将该设备替换为兼容的未配对设备,以便所未更改状态。	有设置保持		

# [Remote manual]



Detection range: 25%/50%/75%/100%

Hold time: 5s/30s/1min/3min/5min/10min/20min/30min

Daylight threshold: 5lux/15lux/30lux/50lux/100lux/150lux/Disable

ON/OFF: disable sense function Sensor motion: enable sense function Reset: all parameter back as factory setting

HS: turn on indicator LS: turn off indicator

## [Disclaimer]

Due to the complexity of product technology and differences in application environment, it is difficult to guarantee a completely accurate or complete description, so this specification is only for user reference. We will reserve the right to make changes to the product specifications without notifying the user, and do not make any commitments and guarantees in the legal sense. At the same time, our company encourages users to supplement or modify the contents of our specifications after using our products.