

Specification

Product series:	High-mounting PIR motion sensor (Casambi+DALI version)	
Product model:	MSA227 IR B1	
Product version:	V1.0	

Version	Release/ change Date	Publishing
V1.0	2024.10.10	Jacky
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[Product description]

MSA227 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. Meanwhile it also has one channel DALI dimming terminal output and one channel push control terminal output.

[Product Feature]

- PIR motion detection
- Connect to casambi BLE ecosystem
- Accurate motion detection with one channel DALI dimming output and casambi communication
- Support one channel PUSH on/off and dimming control
- 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
- 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: 6-pin terminal

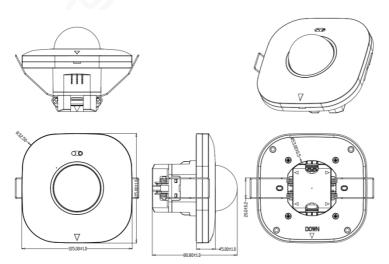




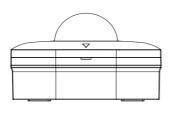
Input/Out put	Input voltage	220-240V AC	
	Rated voltage	220V AC	
	Working current	20mA max	
	Power consumption	≤0.5W @220/230V AC	
	Output signal	DALI+PUSH+casambi	
	Function	PIR motion detection+ daylight sensor	
	Detection Area	Casambi app setting: 100%/75%/50%/25%	
	Sensor Hold Time	Casambi app setting: 5S/1min/3Min/10Min	
	Daylight Sensor	0-1200lux	
Sensor	Radius detection		
parameter	range(based on 100%	4-5m@25 $^\circ C$ based on 6m mounting height(radial moving trigger	
	sensitivity and tangential	range shall be less than tangential moving)	
	moving)		
	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 differer	
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]

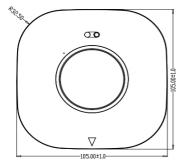
Flush mounting

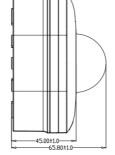


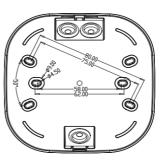
Surface mounting

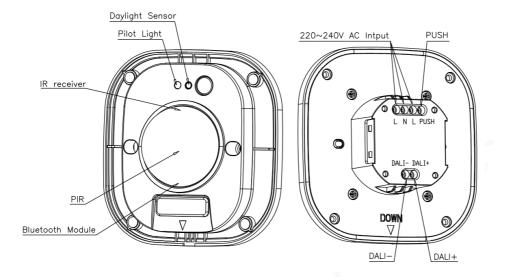




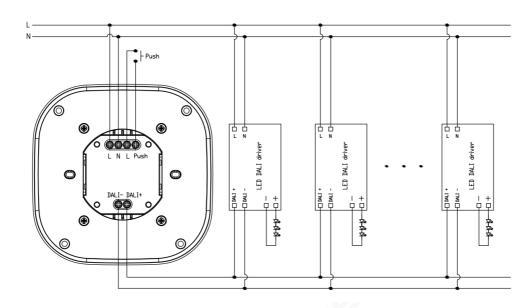








[Wiring instruction]



Wiring layout suggestion:

1. LN terminal shall connect to AC input, DALI+ 、DALI- shall connect to dali driver, push and L connect to PUSH

button, please wiring correctly

- 2. DALI terminal output broadcast signal and max access dali driver quantity shall not exceed 64pc
- 3. PUSH terminal can turn on/off by short press and dimming by long press

[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

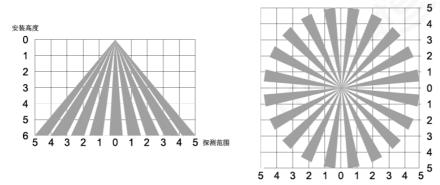
parameter.

[Factory setting]

Detection Area:100%, Hold Time: 5s, Indicator:ON

[Detection radiation]

MSA227 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.

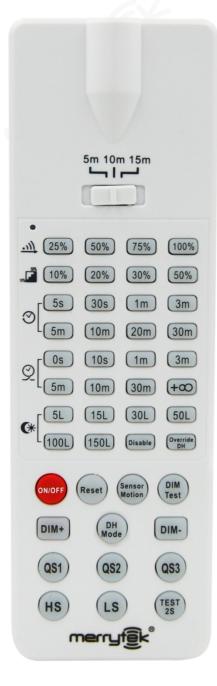
【Casambi app】

23:57 🛱 🔐 🖓 🛙	87
≮返回 MSA227S IR	
智能开关	
□ 未在使用中	>
控制电源开关用于开启或关闭灯具时,或其迅速关闭并重新 开启时的状况。	Ť
人体存在感应器	
🌋 未在使用中	>
已启用	$\mathbf{)}$
控制检测到有人或无人时的状况。	
● 日光感应器	>
已启用	$\mathbf{\mathcal{D}}$
感应器测量亮度级,日光关联场景可配置为遵循感应器组, 以自动调整相关灯具的亮度。	
参数	
indicator ON	>
coverage range 100%	>
S 替换设备	>
将该设备替换为兼容的未配对设备,以便所有设置保持 未更改状态。	?

Indicator: ON/OFF Coverage range: 25%/50%/75%/100% Sensor hold time:5s/1min/5min/10min

Rentie

[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.