

Specification

Product series: High-mounting PIR motion sensor (ON/OFF version)

Product model: MSA015S IR

Product version: V1.0

Version	Release/ change Date	Reason
V1.0	2024.02.02	Jacky

[Product description]

MSA015S IR is a high-mounting PIR motion sensor with daylight detection function. 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
- Accurate ON/OFF output
- Daylight sensor detection available
- Detection area, hold time and daylight threshold can be set by remote/DIP switch
- Max detection range: 8-10m in diameter
- 10m 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



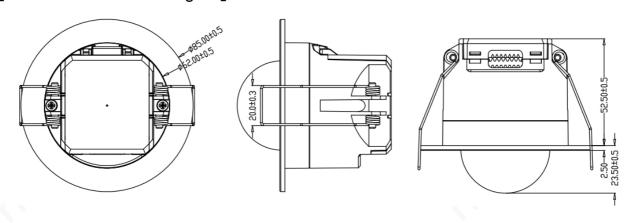
[Dimension]

- Product size: φ85x56mm
- Connection interface: 4-pin terminal

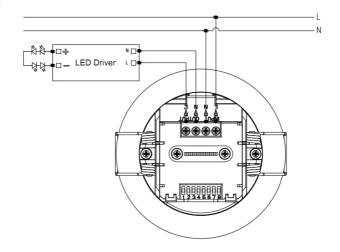
[Parameter]

	Input voltage	100-240V AC		
	Rated voltage	220V AC		
Input/Out	Power consumption	20mA max		
put	Output signal	≤0.2W @220V DC		
	Load capacity	ON/OFF		
	Power consumption	800w resistive loading or 400w inductive loading		
	Function	PIR motion detection+ daylight sensor		
	Detection Area	DIP or remote setting: 100%/75%/50%/25%		
	Hold Time	DIP: 5s/1min/3min/5min/10min/20min/30min		
	Hold Time	MH10remote:5s/30s/1min/3min/5min/10min/20min/30min		
		DIP: 5Lux/50Lux/150Lux/Disable		
Sensor	Daylight Sensor MH10remote: 5Lux/15Lux/30Lux/50Lux/100Lux/			
parameter		150Lux/Disable		
	Radius detection range(based on 100% sensitivity)	4-5m based on 8m mounting height		
	Remote control	Available		
	Mounting height	2.5-10m, typical value:8m		
Drill hole Φ65-70mm		Ф65-70mm		
Application	Manda - Language	-25℃+50℃(detection range might differ based on different		
environme	Working temperature	temperature)		
nt	Storage temperature	-40°C~+80°C		
	Certificate	Compliant to CE		
Certificate	Compliant to RoHS			
Standard				
	IP rating	IP20		
"N/A" means	s not available			

【Dimension and Function diagram】

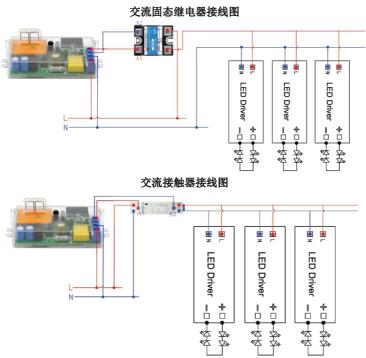


[Wiring instruction]



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.



注:负载能力由交流固态继电器/交流接触器性能决定。

[Initialization]

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

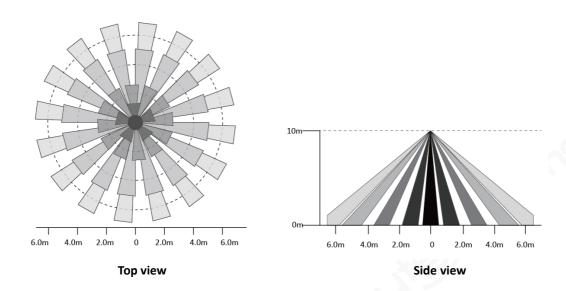
After 10S, you can use our MH10 remote or dip switch to adjust detection area hold time and daylight sensor etc parameter.

[Factory setting]

Detection Area:100%, Hold Time: 5s, Daylight Sensor: Disable

【Detection radiation】

MSA015S IR 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.

[DIP switch setting]

Detection Area

	1	2
100%	ON	ON
75%	-	ON
50%	ON	-
25%	-	

Hold Time

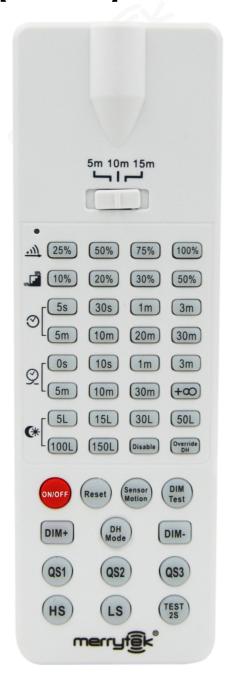
	3	4	5	6	
I	ON	ON	ON	ON	5S
II	ON	-	ON	ON	1min
III	ON	ON	-	ON	3min
IV	ON	ON	ON	-	5min
V	ON	ON	-		10min
VI	-	-	ON	ON	20min
VII	-	-	-	<u> </u>	30min

Daylight Sensor

	7	8	
I	ON	ON	5Lux
II	-	ON	50Lux
III	ON	-	150Lux
IV	-	1	Disable

^{*}Once daylight sensor set as Disable,our motion sensor will detect human movement regardless of environment lux

[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

[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.