

Specification

Droduct	cariace	High-mounting	DID	motion	concor	120	, contact	vorcion
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Product model: MSA015D IR

Product version: V1.0

Version	Release/ change Date	Publishing
V1.0	2024.02.02	Jacky

[Product description]

MSA015D 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 NO/NC dry contact 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
- 8m max mounting height
- Warehouse, workshop and lobby motion detection highly recommended
- Flush mounting and surface mounting available



[Dimension]

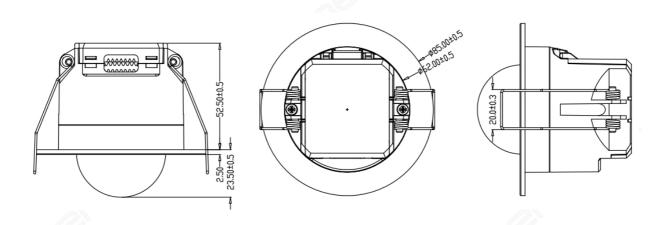
Product size: φ85x56mm

• Connection interface: 4-pin terminal

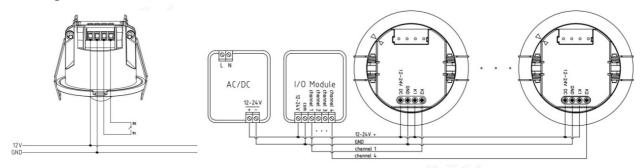
[Parameter]

Input/Out put	Input voltage	12-24V DC		
	Rated voltage	12/24V DC		
	Working current	20mA max		
	Power consumption	≤0.5W @12/24V DC		
	Output signal	NO/NC dry contact (Factory setting is NO dry contact)		
	Function	PIR motion detection+ daylight sensor		
	Detection Area	DIP or remote setting: 100%/75%/50%/25%		
	Hald Times	DIP: 5s/1min/3min/5min/10min/20min/30min		
	Hold Time	MH10remote:5s/30s/1min/3min/5min/10min/20min/30min		
Samaan		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@25℃ based on 6m mounting height		
	Remote control	Available		
	Mounting height	2-8m, typical value:6m		
Applicatio	Drill hole	Ф65-70mm		
n	Marking tomporature	-25 $^{\circ}$ C+50 $^{\circ}$ C(detection range might differ based on different		
environme	Working temperature	temperature)		
nt	Storage temperature	-40℃~+80℃		
Certificate	Certificate	Compliant to CE		
Standard	Environmental requirements	Compliant to RoHS		
Stanuaru	IP rating	IP20		
"N/A" means	s not available			

【Dimension and Function diagram】



[Wiring instruction]



Wiring layout suggestion:

- 1. Hand-in-hand wiring is highly recommended, yet star-topology or tree-topology is strongly deprecated
- 2. When there's more than 1pc sensor is a line, you shall consider all equipment current consumption shall not surpass your driver's loading capacity.

[Initialization]

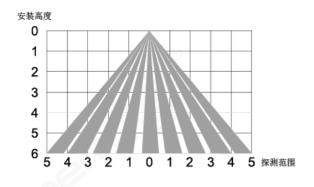
When powered on, sensor indicator will turn off after flashing for 10S and will not detect moving signal during this time. After 10S, you can use our MH10 remote or dip switch to adjust detection area. hold time and daylight sensor etc parameter.

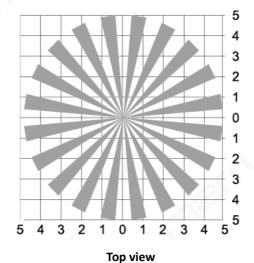
[Factory setting]

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

[Detection radiation]

MSA015D IR is highly recommended ceiling flush mounting and its detection radiation is as below shows:





Side view

[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	(-0)	5min
V	ON	ON	-		10min
VI	-	-	ON	ON	20min
VII	-	-	-	-	30min

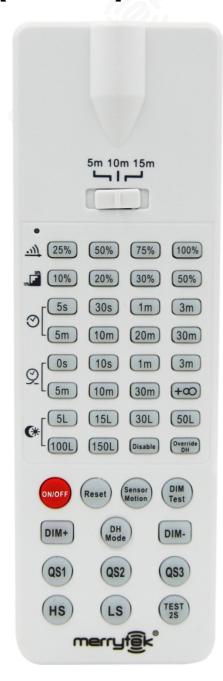
Daylight Sensor

	7	8	
I	ON	ON	5Lux
II	_	ON	50Lux
III	ON	-	150Lux
IV	-	-	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 DIM+: NO dry contact, DIM-: NC dry contact,

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.