

BA-121 OMW

Dual-MW outdoor detector installation manual

1.Simple introduction

BA-121 OMW adopts the dual-micro outdoor intruding detector which includes energy-pile-up logical process, logic dynamic time split technology. It is the best choice of outdoor intruding detector for finance industry, business and garden resident.

BA-121 OMW, the part of PIR adopts sophisticated columnar FRESNEL technology, advanced radian design to improve the efficiency of energy receiving. And combine the MW and PIR technology. MW detecting area and the PIR detecting area are overlap. High sensitivity but do not have any fault arming. The part of the MW can calculate out the moving objects's speed and volume and so on. Cooperating with the advanced patent software technology can help make the accurate judgement between the real intruder and some other interference resulting in fault arming. Have a super high performance of detecting and anti-fault arming.



2.Specification

product name:

input voltage: 12 VDC

most current : 62mA

meeting point rating: 3W、125mA

most current、25 VDC

most voltage(DC resistant load);

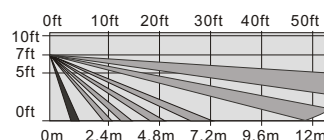
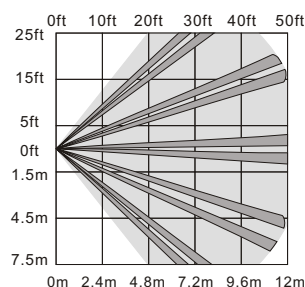
sharing with the relay use the "C" down-lead's 4.7Ω、1/2W resistant to protect

Remark: Please do not use on the load of capacitance or inductance

temperature rang: -10° C to +50° C.

MW frequency : 10.525GHz

covering range: 12m*12m



3.Installation

Please do not install the detector in the position of PIR or MW always in the status of alarming (LED is on). After right installation, turn down the LED. Please do not towards to the direction of car driving. Avoid installing at the place as the hanging sign and the trees can be blown by the wind, and the other things at the place of sub-coring zone, and the coring zones where the wildness animals can intrude. Please check that the installing place is steady and non vibration.

Warning!!!

Only after all the connection, then can turn on the power. Please do not place the detector at the area with the redundant curing wiring. Please do not connect the terminals to the 25VDC power.

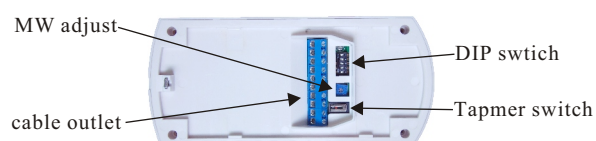
SELV

Some countries request the relay should be connected to the circuit with the SELV


3.2 Installing step



A. Use the screwdriver to open the top and then install



4.Wiring




Terminal	Lable	Function
1	V+	Voltage: 12VDC
2	V-	
3		Undefined
4	C	Arming relay
5	NC	
6	NO1	Timed alarm relay contacts
7	C1	
8	NC 1	Tamper
9	T	
10	T	

V+ V- C NC NO1 C1 NC1 T T

terminal block sketch

5.Adjust the MW sensitivity



Weaken

Strengthen

adjust the MWsensitivity :
counterclockwise: weaken
clockwise: strengthen

MW inspect
If the part of the MW stopped emitting or receiving signal, the detector will be locked up at the alarming status. If the normal emitting or receiving , the detector will return to the normal working status.

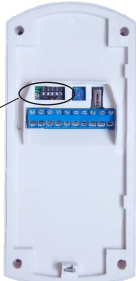
NOTE: To makesure the stable and reliable working,need to check the detectoronce a month

6.DIP Switch

NO

DIP

1 2 3 4 5



DIP1

LED Disable

Determines if the LEDlights during alarm situations. ON: LED can be used
Default factory setting: ON OFF: LED can not beused

DIP2

PIR Sensitivity

Standard: Minimizes false alarms.
Tolerates environmental extremes

Intermediate: Use where an intrudermightcover only a small portion of the protectedarea.
Tolerates normal environments.
Note: The detectoris shipped in StandardMode.

On: standard
OFF: Intermediate

DIP3

DIP4

Timed Relay Outputs

Form "C," unsupervised, timed relay contactthat transfers 1 secafter an alarm. Itfollows a user-selectable timer.The time expires at the time setafter the last alarm.It resets on each new alarm.

DIP3	DIP4	Relay Activation Time
OFF	OFF	2SEC
ON	OFF	1MIN
OFF	ON	5MIN
ON	ON	10MIN

DIP5

AND/OR Mode

Determines if the detectoralarms in theAND mode (when both technologies simultaneously sense analarm condition) or inthe OR mode(when either thePIR or Microwave technologysenses an alarm state).
Note: The OR mode is not recommendedfor most installations. The OR mode provides faster detection in someconditions. It can also increase thelikelihood of nuisance alarmsbecause the detector activates the alarmrelay based on inputfrom a single technology.

ON: AND Mode
OFF: OR Mode

7.Walking test

Remark: before the walking test, please makesure the detectoris fixed atthe installing ,all the linesare connected andthe poweris ON

Remark: Check LED isOn (please refer tothe part ofDIP1)

Remark: To avoidthe fault alarming, set theMW dial tobe the minbefore the walking test.

MW range

PIR range

1.After the powerON and theself-checking is over, then startthe walking test.LED will flashwith the red till the detector in a stable statusand in 2Sthere is no moving .

2.When you walk to the edge of the covering area, look at the status ofLED, and theLED will be on out of the covering area.

3.Repeat the step3 at the different direction tillthe suitable verifying the area edge.
Blue LED will be on, to recognize the covering area's edge of PIR
Blue LED will flash, to recognize the covering area's edge of MW

4.rRepeat the step3 in a reverse direction

5.If still notreach the requirigrang, please turnthe MW adjustercounterclockwise with a little step to increase the value of the MW adjuster.

6.Repeat walking testand make theadjustment till achievethe most farcovering area.

