

ODT-8350 DMT

Dual-MW outdoor detector installation manual

1. Simple introduction

ODT-8350DMT 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.

ODT-8350DMT, 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: ODT-8350DMT

input voltage: 12 VDC

most current : 62mA

meeting point rating: 3W、125mA

most current、25 VDC

most voltage(DC resistant load);

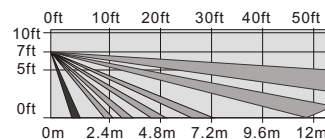
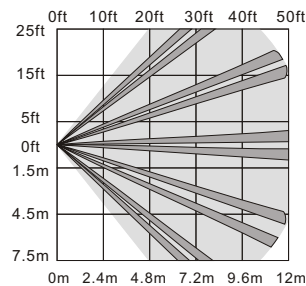
sharing with the relay use the "C" down-lead's 4.7Ω 、1/2W resistant to protect

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

temperature rang: -10°C to $+50^{\circ}\text{C}$.

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 corving zones where the wildness animals can intrude. Please check that the installing place is steady and non vibration.

Warning!!!

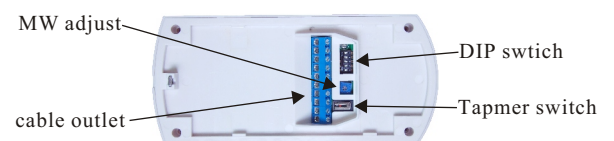
Only after all the connection, then can turn on the power. Please do not place the detector at the area with the redundant curing wiring. Please do not connect the terminals to the 25VDC power.

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


3.2 Installing step



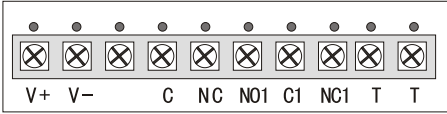
A. Use the screwdriver to open the top and then install



4. Wiring

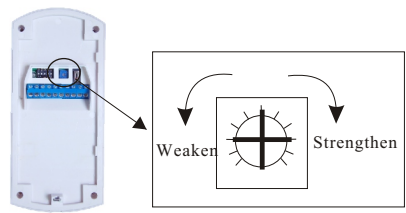


Terminal	Label	Function
1	V+	Voltage: 12VDC
2	V-	
3		Undefined
4	C	Arming relay
5	NC	
6	NO1	Timed alarm relay contacts
7	C1	
8	NC 1	
9	T	Tamper
10	T	



terminal block sketch

5. Adjust the MW sensitivity




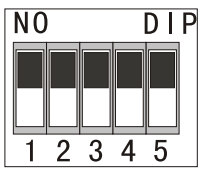
adjust the MW sensitivity :

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 make sure the stable and reliable working, need to check the detector once a month

6. DIP Switch

DIP3	DIP4	Timed Relay Outputs
OFF	OFF	2SEC
ON	OFF	1MIN
OFF	ON	5MIN
ON	ON	10MIN

Form "C," unsupervised, timed relay contact that transfers 1 sec after an alarm. It follows a user-selectable timer. The time expires at the time set after 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

DIP1 LED Disable
Determines if the LED lights during alarm situations. ON: LED can be used
Default factory setting: ON OFF: LED can not be used

DIP2 PIR Sensitivity
Standard: Minimizes false alarms. Tolerates environmental extremes
Intermediate: Use where an intruder might cover only a small portion of the protected area. Tolerates normal environments.
Note: The detector is shipped in Standard Mode.
ON: standard
OFF: Intermediate

DIP5 AND/OR Mode
Determines if the detector alarms in the AND mode (when both technologies simultaneously sense an alarm condition) or in the OR mode (when either the PIR or Microwave technology senses an alarm state).
Note: The OR mode is not recommended for most installations. The OR mode provides faster detection in some conditions. It can also increase the likelihood of nuisance alarms because the detector activates the alarm relay based on input from a single technology.
ON: AND Mode
OFF: OR Mode

7. Walking test

Remark: before the walking test, please make sure the detector is fixed at the installing, all the lines are connected and the power is ON

Remark: Check LED is On (please refer to the part of DIP1)

Remark: To avoid the fault alarming, set the MW dial to be the min before the walking test.

MW range
PIR range

- After the power ON and the self-checking is over, then start the walking test. LED will flash with the red till the detector in a stable status and in 2S there is no moving.
- When you walk to the edge of the covering area, look at the status of LED, and the LED will be on out of the covering area.
- Repeat the step 3 at the different direction till the 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
- Repeat the step 3 in a reverse direction
- If still not reach the requiring range, please turn the MW adjuster counterclockwise with a little step to increase the value of the MW adjuster.
- Repeat walking test and make the adjustment till achieve the most far covering area.

