MC-335R(DMT) Wireless Motion Detector

1. Introduction

The MC-335R(DMT) is a PIR technology intruder detector designed to detect human body movement in a protected area. Digital processing ensures a high immunity to false alarms and outstanding stability. The MC-335R(DMT) uses a sophisticated radio communication protocol with a high level of data safety. The detector makes regular auto testing and reports its conditions regularly to the system for full supervision. Built-in tamper switch trigger an alarm if there is any attempt to tamper with the detector. An automatic testing mode makes testing an ease.

Lithium battery

LED

Infrared lens

Fig.1 Appearance

Tamper key

DIP

Fig.2. Internal Structure

2.Specifications

Type: MC-335R(DMT)

Detection range: 9m(25℃)
Transmit range: 120m-150m (open area)

Power supply: 3 VDC lithium battery

Current consumption：

    Static≤30μA，Alarm≤20mA（433MHz）

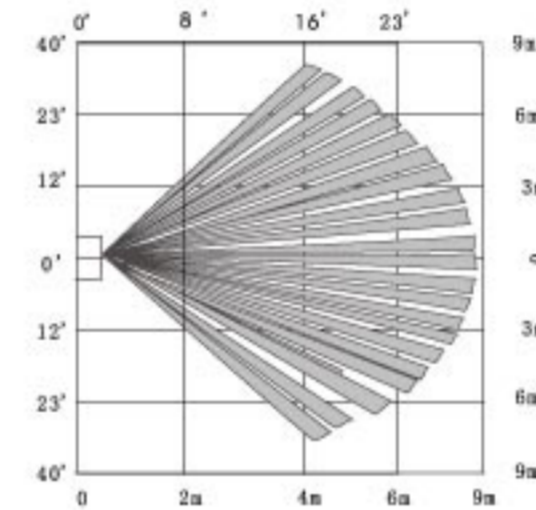   Static≤30μA，Alarm≤50mA（868MHz）

Battery life: about 1 year

Infrared part e.g right picture
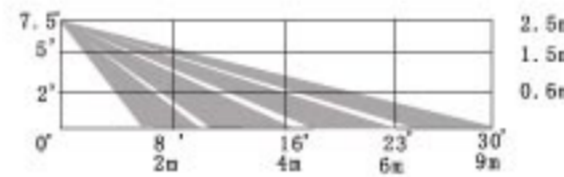Max coverage area: 9m*12m
                (23*46 inches)/90°
Transmit frequency: 433MHz/868MHz

Alarm indication: LED lights for several seconds

Top View

Sise View

3.Installation

Installation:

Installation height from 2.0 to 2.5m

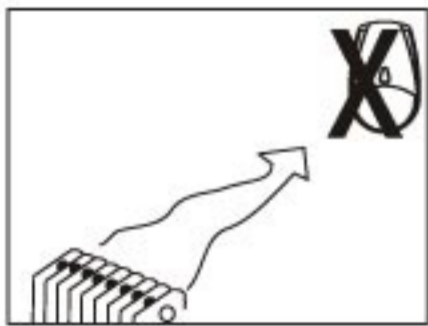Allow an 45° angle between wall bracket optional

Environment:
Work environment:-10℃ to +50℃
                (14℉ - 122℉)

Storage environment:-20° C to +60℃
                (-4℉ - 140℉)

White light protection(inner): >9000LUX
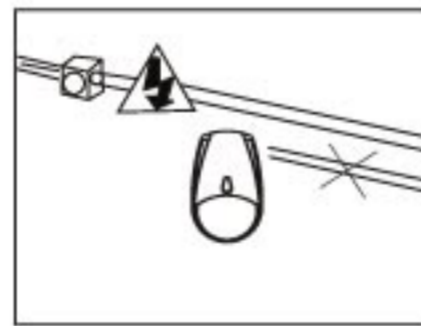Dimension: 95*64*49mm
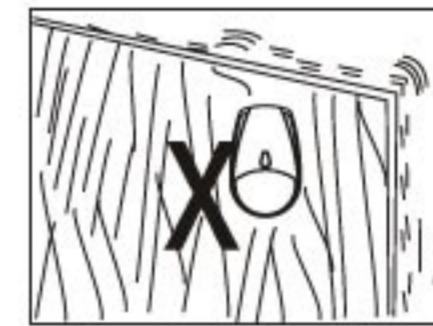
4.1 Installation Notice

Do not expose to heating/cooling object

Prevent direct sunlight from reaching the detector
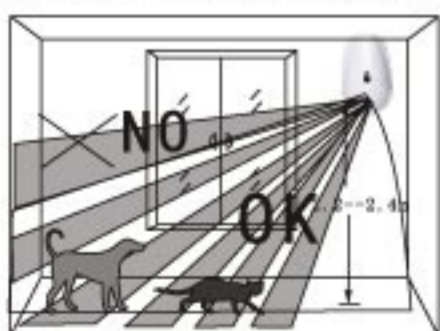
Keep wiring away from electrical power cables
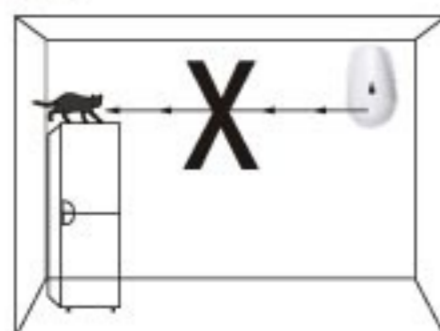
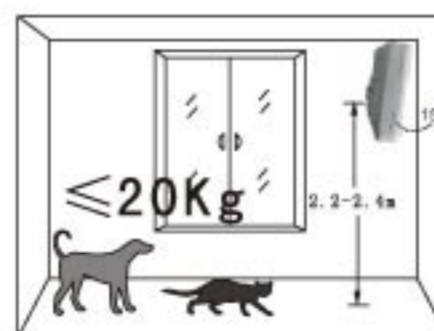Ensure the stable mounting location

Avoid facing metal wall
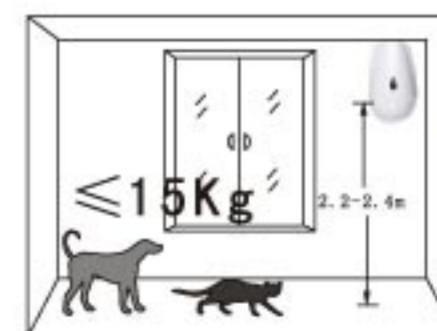
4.2 pet-immunity guidebook

NO
OK

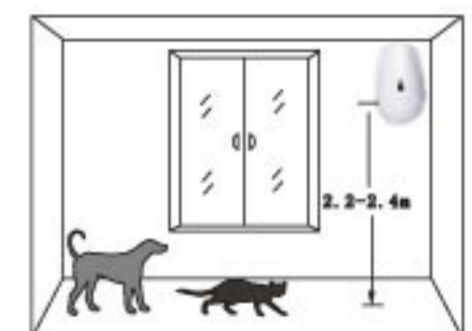the top of the detecting area is the non-pet-immunity area

prevent direct the places where the pets can clamb up

≤20Kg

the pet is smaller than 20kg

≤15Kg

the pet is smaller than 15kg

The installation height of 2.2m to 2,4m is available pet-immunity height

4.3 Introduce DIP function:
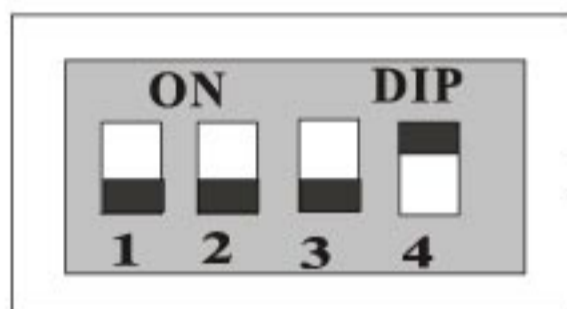
MC-355R DMT can choose 3 kinds of pulse as follows:
1-pulse：Alarm 1-pulse.
2-pulse：Alarm 2-pulse。
3-pulse：Alarm 3-pulse(Factory default)。
Higher pulse counting and lower catch performance
and can avoid false alarm

1	2	Modes
ON	OFF	1-pulse
OFF	ON	2-pulse
OFF	OFF	3-pulse

MC-355R DMT can set three modes as follows:
Test Mode：Emitting alarm signal once detector is triggered. No time-lag between two emissions.
Power-saver mode：Detect every 3 minutes. Send detection signal of detector and battery status every 65 minutes (Factory defaul)
Coding Mode：Press tamper switch for more than 3 seconds and send an identification code to receiver.

Dip switch3and 4 set modes

3	4	Modes
ON	OFF	Test
OFF	ON	Power-saver
OFF	OFF	Coding

4.4. Coding method between detector and control panel:

① Coding set：
Install the battery LED flashes，when the detector gets stable after seconds，press tamper switch for more than 3 seconds and detector will send a wireless signal. If the control panel receives the signal and give the response sound then code successfully. Please refer to control panel manual for details.

Press the tamper switch for study the ID code

② If short-circuit pin "A" with a jumper then the tamper alarm function invalid.

4.5. Detection distance adjustment and battery changes

① Shorten detection distance by pushing down the PCB and vice versa User can adjust it to meet different need. As shown on the right picture, the detection distance is the farthest.
②When the signal between detector and control panel becomes weak. That means a low battery condition. Users should change new battery with same type. Pull out the base cover and change battery.Please pay attention to the positive and negative.

Insert one new battery

5. Walk test in coverage area:

① Set as Test Mode to precess walk-test,pulse count set as 1,2 or3。
② Walk across the far edge of coverage area at the speed of 1 step/second(about0.75m/s) The LED will flash for seconds then alarm（as shown in the right figure）
③ Do walk-test in opposite direction to confirm the boundary of both sides, Make sure the detection centre pointing to the centre of protected area.
④ Make sure the detection centre at the proper place. Should properly adjust the detection area if you can not get an ideal detection area.
⑤ After adjust the detection angle , should redo the walk test as above.
⑥ Please change TEST mode to NORMAL mode after the Walk-test .

6. Customer service

Our products are very reliable，but for some special reasons, the working performance will be limited in certain range. We here list some cases as follows：
①. The voltage of control panel is not stable；
②. Low-voltage of the detector.
For any help please contact with our company and your could visit our website for more information.

⚠ Warning: We are not responsible for the problem caused by improper operation by users!

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