



توان گستر الکترونیک
TAVAN GOSTAR ELECTRONIC

MC-235DMT Dual Technology Intrusion Detector with Pet Immunity Manual

1. Introduction

MC-235DMT is a PIR intrusion detector which used for accidental and hostile intrusion detection. With slim and streamline design, it is suitable for wall mount or 45° to corner mount. The installation height is 2.3m (7'6"). Detection sensitivity is adjustable to fit for various environment and good anti-blind corner function. By adopting burnished black front cover, it well settles the false alarm and malfunction caused by the insects. Built-in tamper switch can prevent from authorized tamper. It is widely used in residence, shop, bank, office, warehouse and park area.

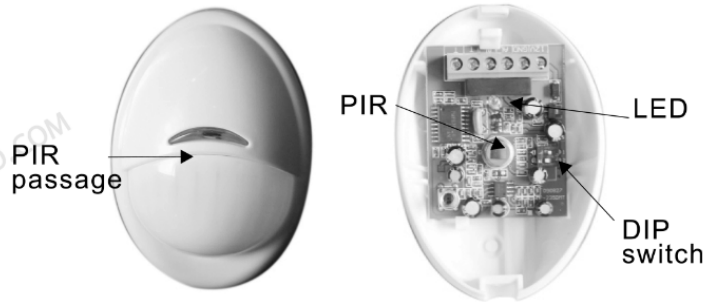


Figure 1 Overall view Figure 2 Inside view

2. Specification

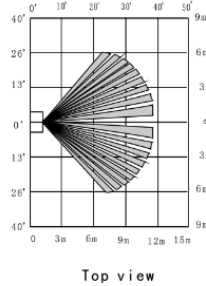
Mode: MC-235DMT

Detection distance: 12m(25°C)

Output voltage: 12VDC

Power consumption: ≤20mA 12VDC

Infrared section(as shown in the figure)



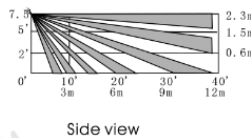
Alarm and Tamper switch

Alarm output: Solid state relay, N.C.

<100mA/30V,--10Ω Internal impedance

Tamper switch: N.C., 50mA/30VDC

<100mA/30V,--10Ω internal impedance



Installation

Wall mount and corner mount.

Installation height: 2.0~2.4m

Note: Base allows single-sided corner mount at 45° to wall.

Working environment:

Working temperature: -10°C-50°C (14°F-122°F)

Storage temperature: -20°C-60°C (-4°F-140°F)

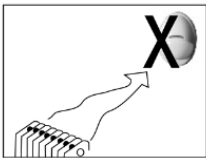
Anti-white light (indoor) : >9000LUX

Anti-EMI: 30V/m, 10MHz-1000MHz

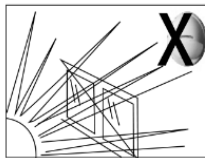
This device complies with the essential requirements provisions of Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio and telecommunications terminal equipment and complies with Canadian RSS-210 standard.

3. Installation

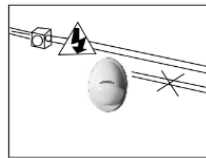
3.1 Installation notes



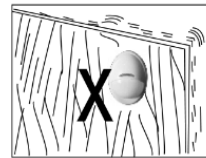
Do not face the cold and heat source directly



Do not face the sunlight directly



Keep wiring away from high-voltage cable

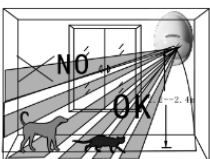


Do not install on unstable object

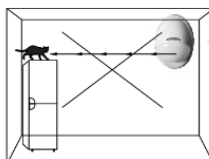


Do not face the metal wall directly

3.2 Pet-immunity Manual



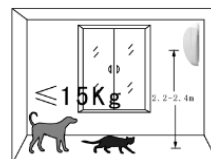
The upper part of the detection area is non pet-immunity area



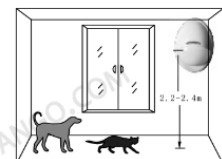
Never face the detector to the level that pets can reach



Pet immunity:<20Kg pets



Pet immunity:<15Kg pets



Pet-immunity installation height 2.2-2.4m

3.3 Illustrated Installation Procedure

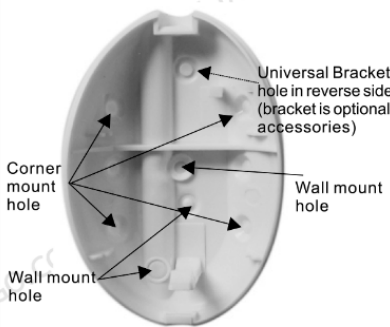
①. Disassemble procedure:

- A. Loose the screw
- B. Pull out the front cover
- C. Slide out the PCB



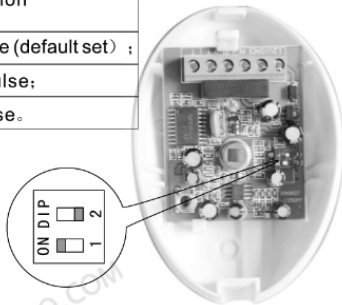
②. Install base: 2.0~2.4m above ground

- A. Mark the drilled hole and drill.
- B. Insert the wireline to the base through back slot
- C. Insert two dowels and attach the base to the wall with two screws
- D. Insert the bottom edge of the PCB under this TAB & press the top edge in



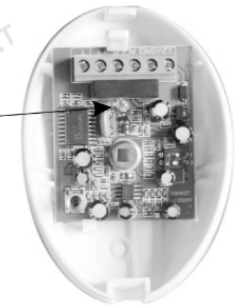
3.4 DIP Switch function:

Switch		Function description
1	2	
ON	OFF	Alarm once detect 1- pulse (default set) ;
OFF	ON	Alarm once detect 2- pulse;
OFF	OFF	Alarm only detect 3 pulse.

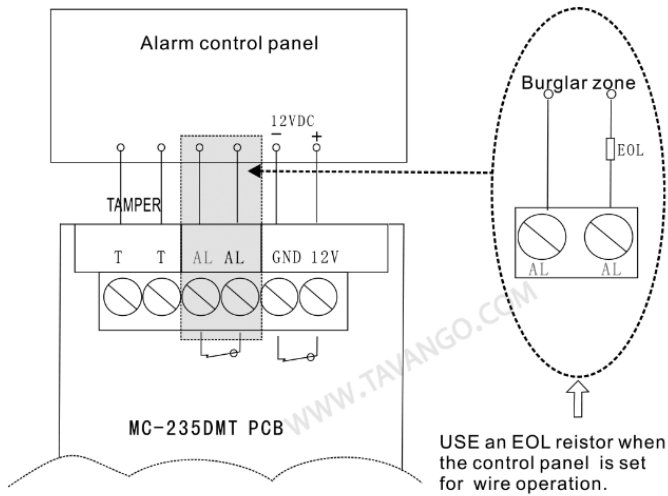


3.5 Indicator LED:

Alarm-LED on,
Standby-LED off



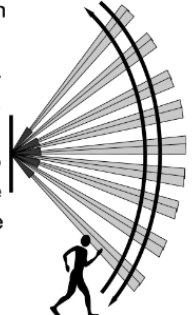
3.6 Wire up the terminal block:



3.7 Walk-test on the coverage area

Mount the front cover in place (as shown in figure)

- ① Power up and self-test then start walk-test.
- ② Walk across the far end of coverage area, the LED should flash red for 2-3 seconds.
- 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 Slowly put hands up the detection area where 3-6 meters away from the detector and mark the bottom border of the PIR alarm. Repeat to confirm the top border.
- ⑤ Make sure the detection centre at the proper place. Should properly adjust the detection area if you can not get an ideal detection range.



Important!: It is recommended that the coverage area be walk-tested a least once a month to assure the proper function of each detector.

4. 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 you 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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