

# **Installation Instructions**

## **DDT-235T/TC Dual Technology Microwave/PIR Intrusion Detector**



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## DDT-235T/TC Dual Technology Microwave/PIR Intrusion Detector

### General Information

- **Input Power:** 7.5 to 16VDC, 14mA DC normal.
- **Alarm Relay:** Silent operating Normally Closed (Form A). Contacts rated at 30VDC, 500mA maximum.
- **Tamper Switch:** Contacts rated at 24 VDC, 50mA maximum.
- **Microwave Frequencies:** 10.515--10.535GHz Center band varies depending on country.
- **PIR white light immunity:** 12,000Lux.
- **RF immunity:** 50V/m, 10MHz--1,000MHz
- **Temperature:** Then operating temp. range is -25~C to +65~C (-13~F to 149~F), 5-95% relative humidity (non-condensing).

- **PIR fields of view:**

DDT-220TFFC Standard lens

22 longrange edges

12 lower edges

6 lower edges

4 down edges

- **Sensitivity:** 2--4 steps within field of view
- **Dimensions:** 11.9 x 7.1 x 4.2cm (H x W x D), 4.685" x 2.795" x 1.654" (H x W x D)
- **Accessories:** Flush Mount Kit, Lens Option Kit 17, Swivel Mount Bracket.

### Wire the sensor:

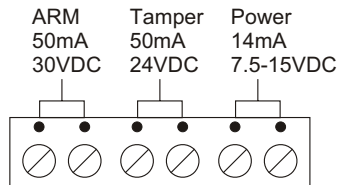
CAUTION: ONLY APPLY POWER AFTER ALL CONNECTIONS HAVE BEEN MADE AND INSPECTED.

Observing the proper polarity, wire the unit as shown (use 14 to 22AWG).

Note: Do not coil excess wiring inside unit.

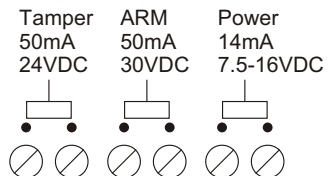
**Reverse polarity will not damage the sensor.**

For NO relay



T2 T1 NO COM V- V+

For NO relay



T2 T1 NO COM V- V+

- **Terminals 1(V+) & 2(V-):** Power limits are 7.5--16VDC. Use no smaller than #22 AWG wire pair (500ft./150m. max.) between the unit and the power source.

- **Terminals 3 & 4:** Alarm relay contacts rated 3 Watts, 0.125 amps, 30VDC max for DC Resistive loads and protected by a 4.7 ohm, 1/2 watt resistor in the "C" leg of the relay.

- **Terminals 5 & 6:** Tamper contacts rated at 28 VDC, 0.125A.

- DDT-235T/TC

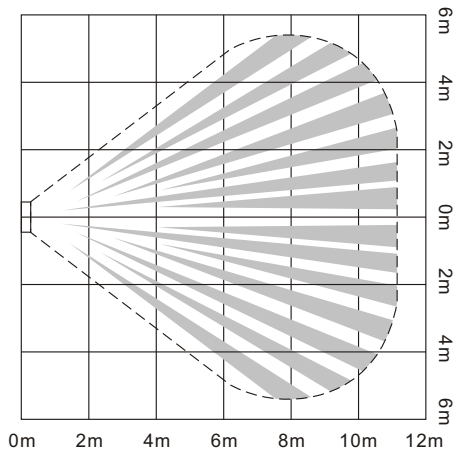
TOP VIEW

Wall mounted

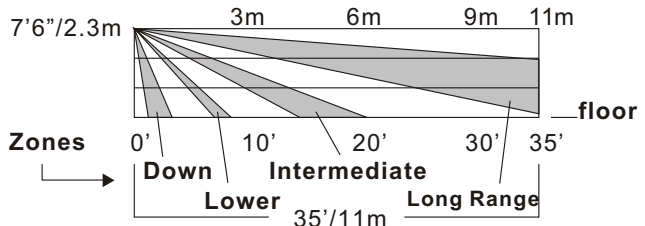
**RANGE:**

- DDT-220T/TC 6X6M
- DDT-235T/TC 11X11M
- DDT-250T/TC 15X15M

For example DDT-235T/TC



- SIDE VIEW



## LED lights mean

- 1.Green & Red lights alternate flash:  
80 seconds for self-checking after power turn-on.
- 2.green light on steady:  
PIR detect the objects.
- 3.Yellow light on steady:  
Microwave detect objects.
- 4.Red light on steady:  
It is alarm conditions.
- 5.Green,green & red lights altermate flash:  
The single PIR technology in operation when IRC mode select in enable.
- 6.Yellow yellow & red lights altermate flash:  
The single Microwave technology in operation when IRC mode select in enable.

## WARNING:

- If IRC mode is selected before start-up,please note the effect space of infrared and micro-wave should be analogous as far as possible.if the disparity in the effect space is oversize,thesensibility of microwave should be adjusted so as to approve the effect space of infrared.
- If IRC mode is start-up and single technology working condition.to turn normal will be Resumed after power-off and restoration.

## Performance

IRC mode,As IRC mode stars up,microprocessor will monitor the working condition of infra-red and microwave automatically.if a break down appreas in any one technology another onewill continue to work automatically.

