

Fig.4 Len Change Procedure

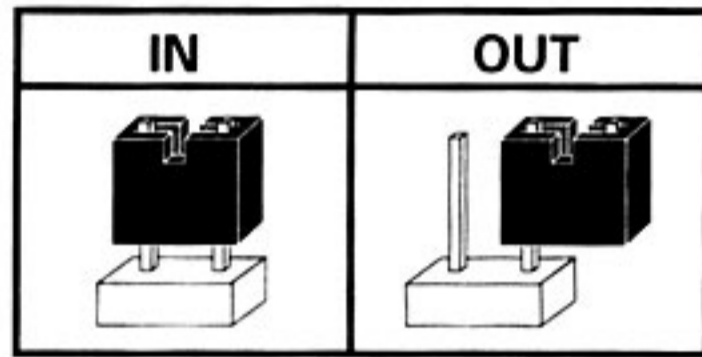


Fig.5 Jumper Positions

### Preliminary Considerations

The ROISCOK DDT Series of Dual Technology (infrared and microwave) motion detectors includes: DDT110, DDT111, DDT115, DDT125 models especially suitable for harsh resident or commercial environments. The coverage is 10M×10M for DDT110, 11M×11M for DDT111, 15M×15M for DDT115 and 25M×8M for DDT125.

### LED Display

When LED Jumper is IN:  
 Yellow LED indicates PIR detection  
 Green LED indicates MW detection  
 Red LED indicates alarm (simultaneous PIR and MW detection).  
 When Memory Jumper is OUT:  
 Events on RED LED are latched.  
 (for units with Memory only)

### Specifications

Operating Voltage: 9 to 16VDC  
 Current: 25mA at 12 Volts  
 Alarm Contacts: 50mA, 24Voltes, NC  
 Tamper Contacts: 100mA, 24Voltes, NC  
 Alarm Time: 2.2s min  
 Warm time: 2 minutes (4 min for RK125)  
 RFI immunity: 30V/m at 10Mhz to 1Ghz  
 Operating Temperature: -10°C to 50°C  
 Storage Temperature: -20°C to 60°C  
 Size: 128×64×40mm  
 Mounting Fashion: Wall/Ceiling/Corner  
 Swivel Brace: RA93

### Main Features

- ◆ Dual IR and MW Technologies
- ◆ Microprocessor Design
- ◆ Pet immunity 100lb dog, 6 cats (only for RK111DT)
- ◆ True Temperature Compensation
- ◆ Microwave Range Adjustment
- ◆ Pigmented Lenses
- ◆ Creep Zone
- ◆ Low Current Consumption
- ◆ High RFI immunity for false alarm prevention 20V/M up to 1GHz
- ◆ Free swivel Brackets for Wall & Ceiling/Corner Mounting
- ◆ Selectable Pulse Count
- ◆ White Light protection
- ◆ Anti-Fluorescent Interference Signal Processing
- ◆ Easy installation
- ◆ Compact and Attractive design
- ◆ Ideal for Residential installations
- ◆ Memory and Form-C Relay Models Available

### Installations

a. Before installation, carefully study the space to be protected so as to choose the correct placement of the unit for best coverage. The detector should be installed so that the beam patterns are at 45° (optimal) to the intruder's expected path. Corner installations are recommended. Installation height should be between 2.3m and 2.5m for DDT110, DDT115 & DDT125 and 2.0m for DDT111.

b. Pet Immunity  
 In order to optimize pet immunity: Mount the detector vertically at right angles to the floor. Mount the detector at a height of 2m  
 Note: PCB should be properly aligned opposite pet scale (Fig. 3)

c. Terminal Connections  
 Wire the cable to the terminal block at the bottom of the PC Board as follows (Fig. 1):  
 12VDC: Power supply inputs  
 Alarm: N.C dry contacts  
 Tamper: N.C dry contacts

d. Jumper Settings  
 Set jumper in position corresponding to the desired pulse count (Abb.1)

e. LED Display  
 When LED jumper ON:  
 Yellow-PIR  
 Green-MW  
 Red-Alarm

f. Walk Test  
 Replace front cover  
 Apply power and wait until stabilized (>2 minutes)  
 Walk through protection area (Fig.2 and Fig.3)  
 Observe LED, immunity to any available pets

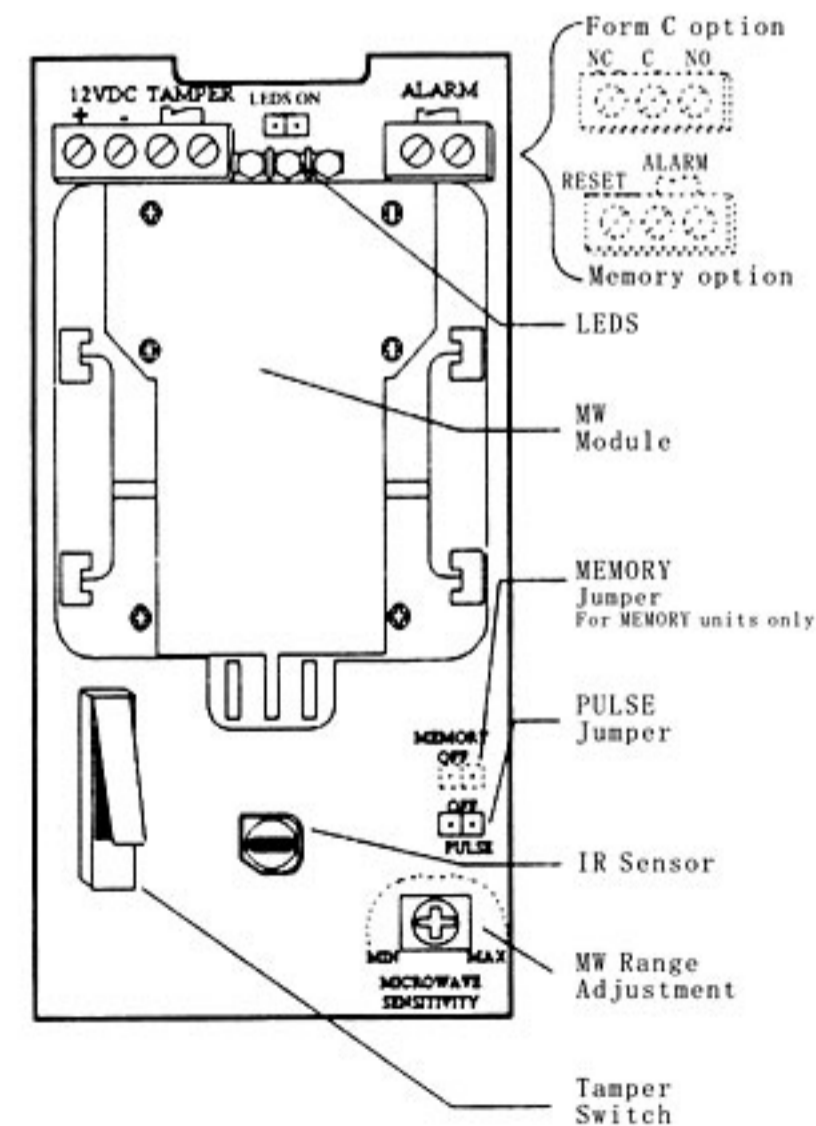


Fig.1 General View

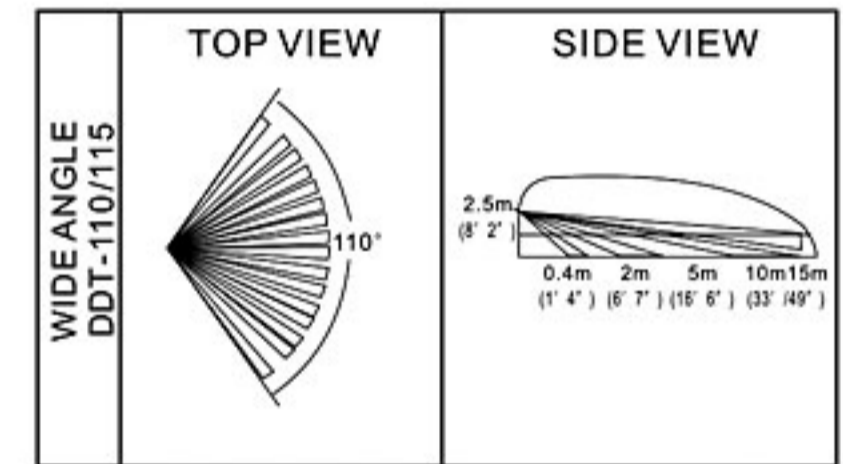


Fig. 2 View

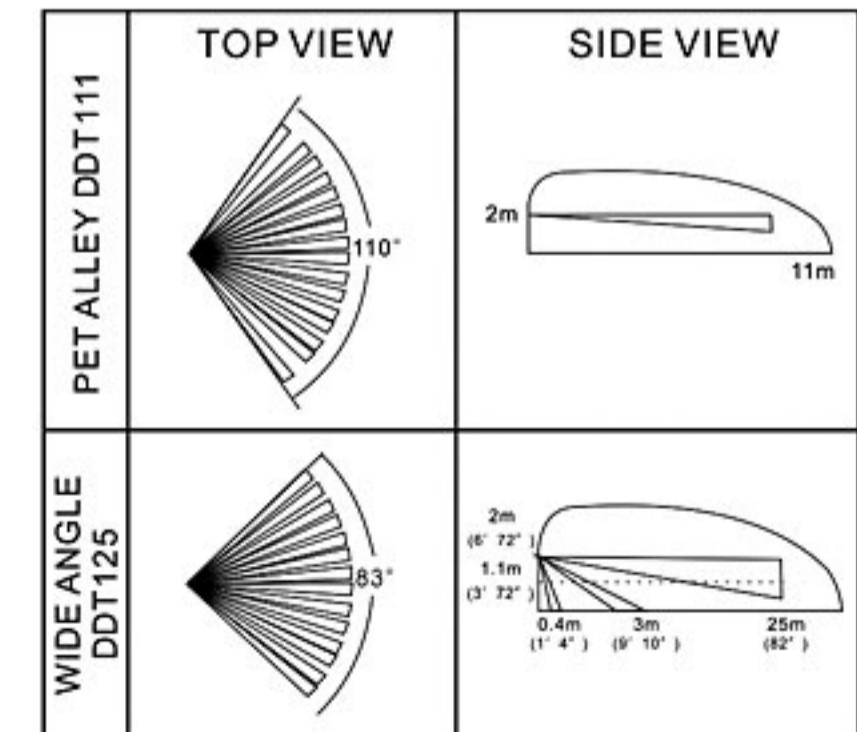


Fig.3

## DDT Series Dual Technology Motion Detectors

(DDT110/DDT115/DDT125/DDT111)



specifications are subject to change without prior notice.

### Installation Instructions