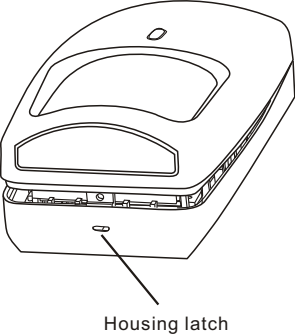
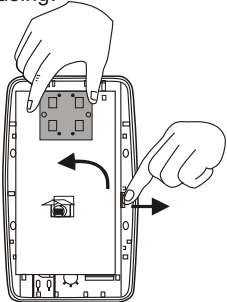
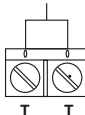
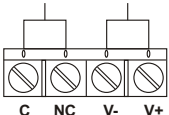
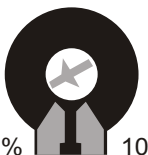


# DDT-7225/7235/7435/7450 DUAL TECH Motion Sensor Installation Instructions

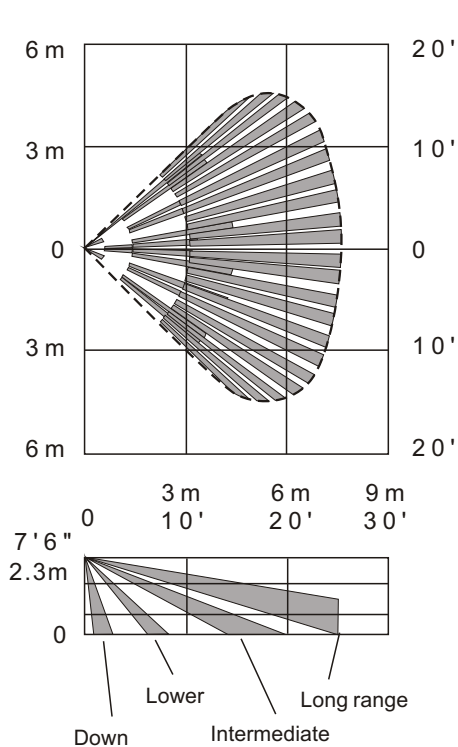
<p style="text-align: center;">FRONT HOUSING</p> 	<p><b>Step 1</b> <b>Separate the sensor housings and remove Printed Circuit Board(PCB).</b></p> <p>Use a small screwdriver to unfasten the housing latch and separate the sensor housings.</p> <p>Push outward on the PCB latch to lift the PCB out of the housing.</p> 	<p><b>Step 2</b> <b>Mount the sensor.</b></p> <p>Break out the mounting/wiring knockouts and mount the sensor in an appropriate location.</p> <p>Break out the mounting/wiring knockouts and mount the sensor in an appropriate location.</p> <p>An ideal location meets the following objectives:</p> <ul style="list-style-type: none"> <li>Allows a clear line-of-sight to all areas to protect.</li> <li>Does not directly face windows.</li> <li>Avoid close proximity to moving machinery, fluorescent lights, and heating/cooling sources.</li> </ul> <p>NOTE: maximum range is obtained at a mounting height of 2.3m(7'6``)</p>	<p><b>Step 3</b> <b>Wire the sensor.</b></p> <p>Observing the proper polarity, wire the unit as shown in the illustration below, use 1.02 to 0.64 mm (18 to 22 AWG) wire.</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"> <p>Tamper</p> <p>50mA</p> <p>24 VDC</p> </td> <td style="text-align: center;"> <p>Alarm</p> <p>500mA</p> <p>30 VDC (UL:8.9-14.5 VDC)</p> </td> <td style="text-align: center;"> <p>Power</p> <p>25 mA</p> <p>7.5-16 VDC</p> </td> </tr> </table> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>TB2</p> </div> <div style="text-align: center;">  <p>TB1</p> </div> </div>	<p>Tamper</p> <p>50mA</p> <p>24 VDC</p>	<p>Alarm</p> <p>500mA</p> <p>30 VDC (UL:8.9-14.5 VDC)</p>	<p>Power</p> <p>25 mA</p> <p>7.5-16 VDC</p>
<p>Tamper</p> <p>50mA</p> <p>24 VDC</p>	<p>Alarm</p> <p>500mA</p> <p>30 VDC (UL:8.9-14.5 VDC)</p>	<p>Power</p> <p>25 mA</p> <p>7.5-16 VDC</p>				

<p><b>Step 4</b> <b>Walk-test the sensor</b></p> <p>After returning the PCB to the housing, reassemble the sensor housing. Apply power to the sensor and begin walk-test when the red LED is off.</p> <p>Walk across the detection area at the ranges to be covered. The red LED should indicate an alarm condition after 2 to 4 normal steps. When there is no motion in the detection area the LED should be off.</p> <p style="text-align: right;">Cut or remove LED enable jumper J1 to disable LED.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">LED INDICATORS</th> </tr> <tr> <th>LED</th> <th>INDICATOR</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>Alarm</td> </tr> <tr> <td>Yellow</td> <td>Microwave</td> </tr> <tr> <td>Green</td> <td>PIR</td> </tr> <tr> <td>Red blink</td> <td>Power Up</td> </tr> </tbody> </table>	LED INDICATORS		LED	INDICATOR	Red	Alarm	Yellow	Microwave	Green	PIR	Red blink	Power Up	<p><b>Step 5</b> <b>Adjust the microwave range.</b></p> <p>A Adjust the microwave range to minimum setting(25%) by turning the range adjustment counterclockwise using a small screwdriver.</p> <p>B Walk-test the sensor and increase the microwave range as necessary.</p> <div style="text-align: center; margin-top: 20px;">  <p>25% 100%</p> </div>
LED INDICATORS													
LED	INDICATOR												
Red	Alarm												
Yellow	Microwave												
Green	PIR												
Red blink	Power Up												

# DDT-7225/7235/7435/7450 DUAL TECH Motion Sensor Installation Instructions

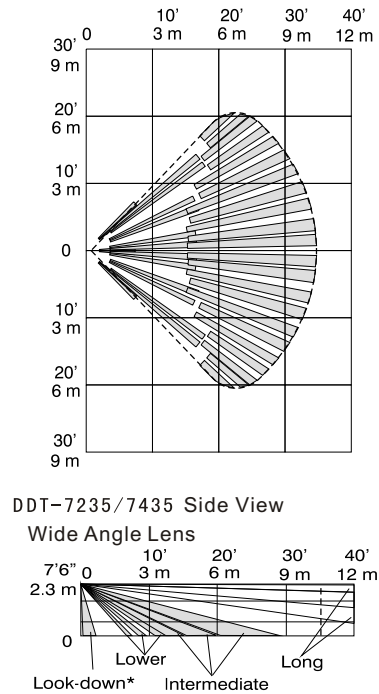
## DDT-7225 Top View

Wall Mounted Wide Angle Lens  
with Typical Alarm Pattern



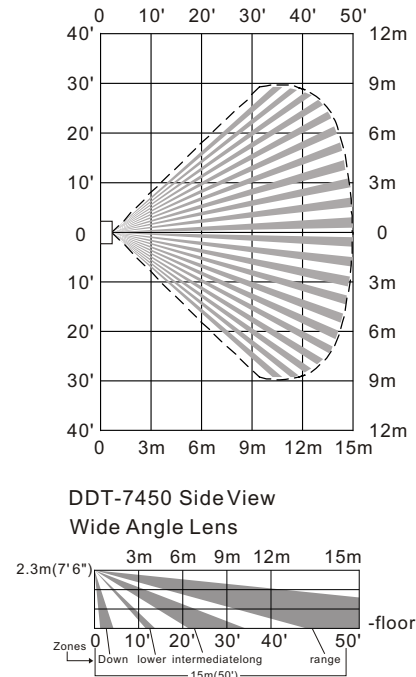
## DDT-7235/7435 Top View

Wall Mounted Wide Angle Lens  
with Typical Alarm Pattern



## DDT-7450 Top View

Wall Mounted Wide Angle Lens  
with Typical Alarm Pattern



NOTE: The sensor should be tested at least once each year to ensure proper operation.

## PRODUCT SPECIFICATIONS

### Range:

DDT7225 7.6m\*9m  
DDT7235 11m\*11m  
DDT7435 11m\*11m  
DDT7450 15m\*18m

### Alarm relay:

Energized Form A  
500mA, 30VDC

### Tampers switch:

(NC)50mA, 24 VDC

### Power requirements:

7.5 - 16 VDC (UL: 8.9-14.5VDC)  
25 mA, 12VDC  
AC Ripple: 3V peak-to-peak at nominal 12VDC

### Microwave frequencies:

10.525 GHz

### PIR white light immunity:

6,500 LUX

### RFI immunity:

30 V/m, 10 MHz - 1000 MHz

### Operating temperature:

-10° --- +55° C (+14° --- +131°F)  
5 - 95% relative humidity (non-condensing)

### PIR fields of view:

7 long range edges  
8 intermediate edges  
9 lower edges  
9 down edges

### Dimensions:

11.9cm H × 7.1 cm W × 4.2 cm D  
(4.685" H × 2.795" W × 1.654" D )

### Sensitivity:

Standard 2-3 steps  
Harsh 3-4 steps