Honeywell



# DT7435UK2

## DUAL TEC® Pet Immune Motion Sensor

The fully-featured DUAL TEC® DT7435UK2 motion sensor achieves reliable protection (with pet immunity for up to 45 kg) and improved false alarm immunity through DualCore™ signal processing. K-Band microwave technology and Uniform Sensitivity Optics ensure optimum performance. And the integrated EOL resistors save on installation time.

## Features

- **Reliable Detection with 45 kg Animal Immunity**
  The combination of DualCore™ signal processing, Uniform Sensitivity Optics and KBand technology, provides installers with both quality detection and the ability to ignore pets or other animals up to 18 kg.
- **Advanced DualCore™ Signal Processing**
  DualCore™ signal processing analyzes PIR and microwave signals through the microcontroller. It supports a multitude of advanced functions, including Concurrent Diagnostics, Digital Fluorescent Light Interference Filter, Digital Adaptive Microwave Threshold, adaptive baselines, and Bi-Directional Temperature Compensation.
- **Superb Detection Through K-Band Technology**
  K-Band microwave technology delivers sharp detection without holes or weak spots. The custom made source offers pattern shaping to fill the protected area with a broad, balloon-shaped pattern which matches the PIR pattern. It also offers pattern containment to reduce the penetration of microwave energy through walls.
- **Uniform Sensitivity Optics**
  The custom-designed Fresnel lens provides the same sensitivity for human targets at the edge of the pattern as exists directly in front of the sensor, giving the DT7435UK2 consistent coverage throughout the protected area.
- **Digital Adaptive Microwave Thresholds**
  The DT7435UK2 digitally adjusts its thresholds to account for room disturbances such as ceiling fans and other repetitive moving objects which are not intrusion events. The result is excellent false alarm immunity even in “active” rooms.
- **Concurrent Diagnostics**
  Optimum performance and reliability are assured through comprehensive diagnostics that do not compromise detection during testing. In addition to performing a full selftest upon power-up, microwave supervision is performed continuously; PIR supervision is performed once every hour. Temperature compensation is monitored and updated every 30 seconds.

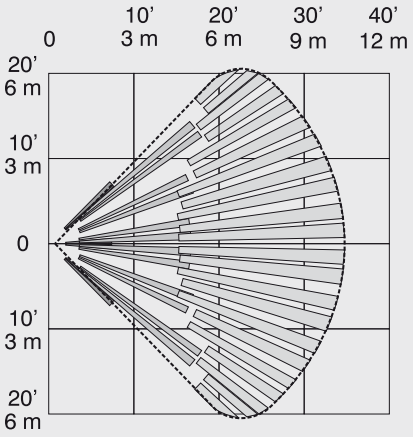
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## DUAL TEC® Pet Immune Motion Sensor

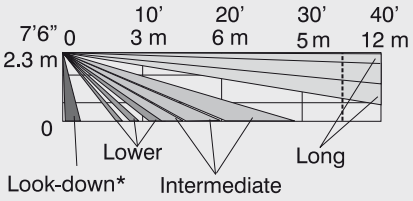
| Specifications | |
|---|---|
| Range | 11m x 11m |
| EOL resistors | Alarm: 1K, 2.2K, 4.7K & 5.6K; default = 1K<br>Tamper: 1K, 2.2K, 4.7K & 5.6K; default = 1K |
| Alarm Relay | Energized Form A<br>125mA, 25V dc, 20 ohm series resistor |
| Mounting Height | 2.3m optimal |
| Tamper | (NC) 50mA, 24V dc |
| Power Requirements | 7.5–16V dc, 25 mA typ., 30mA max at 12V dc,<br>AC Ripple: 3V peak-to-peak at 12V dc nominal |
| Frequencies | 24.200GHz (K-Band) |
| PIR White Light Immunity | 6,500 Lux typical |
| RFI Immunity | 30V/m, 10MHz – 1000MHz |
| Operating Temperature | -10˚ to 55˚C 5% – 95% relative humidity (non-condensing) |
| Self-Test Intervals | Microwave Supervision: Continuous<br>PIR Self-Test: Once every hour<br>Temp. Compensation: Every 30 seconds |
| PIR Fields of View | 22 long range, 12 intermediate, 6 lower, 4 look-down |
| Dimensions | 11.9cm x 7.1cm x 4.2cm |
| Sensitivity | Standard: 3-4 steps, Intermediate: 2-3 steps |

## Detection patterns:

- Top View




- Side View




* Look-down fingers are enabled only when the look-down mask is removed.

## Ordering:

**DT7435UK2**

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## Accessories:

**SMB10**

Universal White Swivel Mount Bracket (5 pack)

**SMB10C**

Universal White Ceiling Mount Bracket (5 pack)

**SMB10T**

Tampered Universal White Swivel Mount Bracket (5 pack)

Note: Swivel mount brackets should not be used for pet immune applications.

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