

DT7435

Alarms SPECIFICATION SHEET



**Dual Technology
Motion Sensors**

PIR & MICROWAVE DETECTION

White Light Immunity

A patented black bug guard reduces false alarms by providing 6,500 lux of white light immunity. This helps reduce false alarm problems caused by lights, flashlights or reflective objects.

Self-Testing for Consistently Reliable Operation

Concurrent diagnostics assure optimum performance and reliability. Self-testing is performed upon power-up and at least once every hour on the PIR, microwave, PCB circuitry and temperature compensation circuitry.

Global Compliance

Our designs meet many of the world's motion detector standards, including the new EN50131-1. And with Kband microwave, it can be used in virtually every market all around the globe.

Flexible Mountings

The **DT7435** family mounts on walls, in corners or on ceilings with the SMB10 family of swivel brackets.

TECHNICAL SPECIFICATIONS

Range	11 x 12m
Frequencies	24.125GHz
PIR White Light Immunity	6,500 lux typical
Fluorescent Light Immunity	50Hz or 60Hz, selectable
RFI Immunity	30V/m, 10MHz – 1000MHz
Dimensions	119 x 71 x 42mm
Mounting Height	2.3m optimal
Tamper	(NC) 50mA, 24VDC

Reliable Detection with 100 lb. Animal Immunity

The combination of Dual Core signal processing, Uniform Sensitivity Optics and K-Band technology, provides installers with both quality detection and the ability to ignore pets or other animals up to 100 lbs. Advanced

Dual Core Signal Processing

Dual Core 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.

Enhanced False Alarm Prevention Features

The **DT7435** protects against false alarms due to RF signals, electrostatic discharge, and electrical overstress. The patented black bug guard improves white light immunity and digital adaptive microwave thresholds automatically adjust for room disturbances.

Immune to Pets up to 100 lbs.

Backed by extensive design and field experience with pet immunity, the **DT7435** delivers robust pet immunity without impacting detection performance.

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 **DT7435** consistent coverage throughout the protected area.

Digital Adaptive Microwave Thresholds

The **DT7435** 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.

Digital Fluorescent Light Interference Filter

Potential false alarms due to fluorescent lights are eliminated with a digital filter with infinite rejection. Frequency of the filter is selectable between 60Hz or 50Hz via DIP switch.

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