

# DT-7225

## DUAL Technology Motion Sensor K-Band Technology



The DT-7225 motion sensor provides reliable protection in a simple installation configuration that requires no adjustments. Optimum performance is achieved using K-Band microwave technology and Uniform Sensitivity Optics.

## Features

- **Fast and Simple Installation Without Adjustments**

No adjustments are necessary. Installers simply mount the unit at the recommended height, conduct a brief walk-test and the sensor is ready. A highly visible, single colored LED helps the installer easily identify range from any distance or angle within the pattern.

- **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.

- **Sturdy, Attractive Housing**

The sleek, sturdy housing fits into a variety of building styles and blends with any room decor. ABS plastic is used for shock and impact protection. The housing offers a convenient wiring channel, knockouts for mounting and wiring, and easy access to wiring terminals.

- **K-band Microwave Technology**

K-band technology delivers sharp detection and superior false alarm immunity through pattern shaping and pattern containment. Pattern shaping fills the protected area with a broad, balloon shaped pattern which matches the PIR pattern. Because K-band is a higher frequency, the amount of microwave energy that penetrates walls is reduced, containing the pattern within the coverage area.

- **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 DT-7225 consistent coverage throughout the protected area.

- **Microwave Adaptive Threshold**

Using a patented microwave adaption circuit, the DT-7225 automatically adjusts its thresholds to account for room disturbances such as ceiling fans and other repetitive moving objects which are not an intrusion event. The result - excellent false alarm immunity even in "active" rooms.

- **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.

- **Microwave Supervision**

Independent circuitry supervises the microwave against failure.

- **Effective in Hot or Cold Environments**

The DT-7225 operates effectively in harsh environments (14° to 131° F / -10° to 55°C). Temperature compensation adjusts processing for improved detection and false alarm immunity.

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### Specifications:

#### Range:

- 25' x 30' (7.6 m x 9 m)

#### Alarm Relay:

- Energized Form A
- 500 mA, 30 VDC

#### Power Requirements:

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

#### Frequencies:

- 24.125 GHz (K-band)

#### PIR White Light Immunity:

- 6,500 Lux typical

#### RFI Immunity:

- 30 V/m, 10 MHz-1000 MHz

#### Operating Temperature:

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

#### PIR Fields of View:

- 22 long range edges
- 12 intermediate edges
- 6 lower edges
- 4 look-down edges

#### Dimensions:

- 4.685" x 2.795" x 1.654"  
(11.9 cm x 7.1 cm x 4.2 cm)

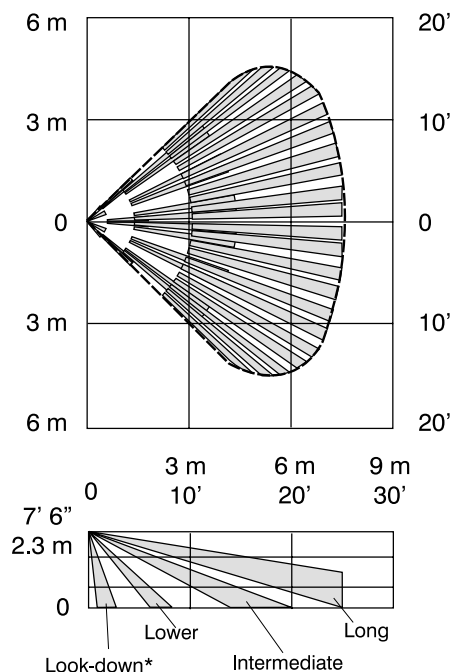
#### Sensitivity:

- 2-4 steps within field of view

#### Accessories:

- SMB-10 Swivel Mount Bracket
- SMB-10C Ceiling Mount Bracket

### Detection Pattern:



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

### Ordering:

DT-7225 Dual Tec Motion Sensor, 24.125 GHz

For more information:

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