

DT-7450EU

DUAL TEC® Motion Sensor

Designed for tough, commercial environments, the DT-7450EU Motion Sensor achieves reliable protection with improved false alarm immunity through DualCore™ signal processing. Optimum performance is achieved using K-Band microwave technology and Uniform Sensitivity Optics.



Features

- **Advanced DualCore Signal Processing**

DualCore signal processing analyzes PIR and microwave signals through the DT-7450EU microcontroller. DualCore processing 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.

- **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.

- **DualCore Signal Processing**

PIR and microwave signals are analyzed in the microcontroller in multiple domains, including amplitude, time, frequency and duration to provide superior false alarm immunity without compromising detection. DualCore processing not only supports

alarm functions, but also advanced temperature compensation, diagnostics, and false alarm features.

- **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-7450EU consistent coverage throughout the protected area.

DT-7450EU

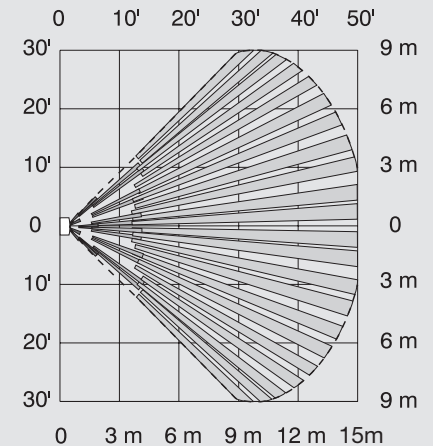
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Specifications

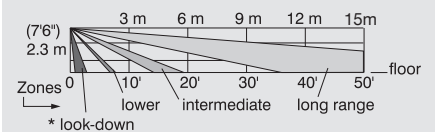
Range	15m x 18m
Alarm Relay	Energized Form A 125mA, 25V dc, 20 Ohm series resistor
Mounting Height	2.3m optimal
Tamper	(NC) 50mA, 24V dc
Power Requirements	7.5 – 16V dc, 25 mA typ., 30mA max at 12V dc AC Ripple: 3V peak-to-peak at 12V dc nominal
Frequencies	24.125GHz (K-Band)
PIR White Light Immunity	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 PIR Self-Test: Once every hour 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	Low (Pulse count 2): 3-4 steps High (Pulse count 1): 2-3 steps
Temperature Compensation	Advanced Dual Slope Temperature Compensation

Detection patterns:

• Top View



• Side View



Ordering:

DT-7450EU

DUAL TEC, 18m, wide angle

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)

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HSCE-DT7450EU-01-ENX(0107)DS-C
January 2007

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