

DT7450-EOL

DUAL TEC® Motion Sensor



Designed for tough, commercial environments, DT7450-EOL Motion Sensor achieve reliable protection with improved false alarm immunity through DualCore™ signal processing.

Optimum performance is achieved using K-Band microwave technology and Uniform Sensitivity Optics. Furthermore the DT7450-EOL offers integrated EOL resistors which will save on installation time.

Features:

- **Advanced DualCore Signal Processing**

DualCore signal processing analyzes PIR and microwave signals through the DT7450-EOL 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 DT7450-EOL consistent coverage throughout the protected area.

DT7450-EOL

DUAL TEC® Motion Sensor

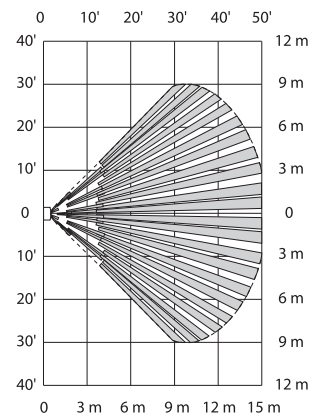
Specifications:

Range	15 x 18 m.
EOL resistors	Alarm: 1K, 2.2K, 4.7K & 5.6K ; default = 1K Tamper: 1K, 2.2K, 4.7K & 5.6K; default = 1K
Detection zones	22 long range, 12 intermediate, 6 lower, 4 look- down
PIR sensitivity	Low (3-5 steps) and High (1-3 steps)
Frequency	24.200GHz (K-Band)
Mounting height	2.3m optimal
Power requirements	7.5 – 16V dc, 25 mA typ., 30mA max at 12V dc, AC Ripple: 3V peak-to-peak at 12V dc nominal
Alarm relay	Form A (NC) / 125mA@25 Vdc, max. 20 Ohm, protective resistor
Tamper	(NC) 50mA, 24V dc - Cover & wall-removal
Self-test intervals	Microwave Supervision: Continuous PIR Self-Test: Once every hour Temp. Compensation: Every 30 seconds
Sensitivity	Low (Pulse count 2): 3-4 steps High (Pulse count 1): 2-3 steps
Operating temperature	-10°C to +55°C
Temp. compensation	Advanced dual slope
Relative humidity	5% - 95% non condensing
RF Immunity	30 V/m from 10MHz to 1000 MHz
PIR White Light Immunity	6,500 Lux typical
Dimensions	119 x 71 x 42 mm (HxWxD)
Weight	185.5 g.

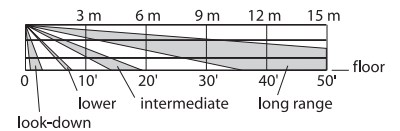
Honeywell reserves the right to alter the specification of products without prior notice.

Detection Patterns:

• Top View



• Side View



Ordering:

DT7450-EOL DUAL TEC, 18m, wide angle

Accessories:

SMB10 White swivel mount bracket (5 pack)
SMB10C White ceiling mount bracket (5 pack)
SMB10T Tampered white swivel mount bracket (5 pack)

Approvals:

- PD6662:2010
- CE

Honeywell Security Group

Newhouse Industrial Estate
Motherwell
Lanarkshire
ML1 5SB
United Kingdom
Tel: +44 (0) 1698 738200
www.honeywell.com

HSC-DT7450EOL-01-EN(0213)DS-Z
February 2013
© 2013 Honeywell International Inc.

Honeywell