Honeywell

DT7500SN

V-PLEX® DUAL TEC® MOTION SENSOR

Designed to be used with Honeywell control panels that support V-Plex serial number polling loop devices, Honeywell's DT7500SN is a versatile, feature-rich DUAL TEC motion sensor that saves dealers time and money on installations. Automatic walk test saves installers a trip to disable the LED on each unit. Patented K-Band technology is less likely to go through walls and makes set-up and installation simple. Additional benefits include 45° terminal blocks for easy installation, a quicker warm-up time, a panel-initiated walk-test and faster system performance with the Smart Contact mode is critical for video and access control integration.

The DT7500SN is ideal for high security commercial environments where masking and false alarm immunity are a concern, and saves time and money on maintenance when used with Honeywell's VISTA-FBP panels.

FEATURES

- Smart Contact is an enhanced V-Plex protocol, allowing the system to communicate with sensors differently. Smart Contact mode works with panels that are enabled for Smart Contact (VISTA-FBP series). Some of the key features of Smart Contact mode are:
  - System Communication
    When the system is disarmed, the panel sends a message to the motion sensor to go to sleep, as any motion event will be ignored. When the system is armed, the panel wakes up the motion sensor and it begins reporting events. This helps speed system performance for larger systems with many motions (malls, schools, office buildings). In these panels, each zone can be individually enabled as a Smart Contact. If it's critical to capture every event of a motion sensor to tag video, for example, Smart Contact mode can be turned off for that zone. Smart Contact helps speed up system performance, which is critical for integrating video and access with the intrusion system.
  - Remote Walk Test Enable
    Going to the panel, you can control Motion Walk Test (turning on the LED) from the keypad. This helps to perform the system check out after installation as well as any regular maintenance of the system. This saves time climbing ladders to enable and disable LED Walk Test.
- **High Traffic Inhibit**
  This is a feature that can be enabled for panels that do not support Smart Contact mode. The feature helps reduce V-Plex bus traffic on larger systems by randomizing the time between alarm messages. Initial alarms are sent with no delay, but subsequent alarms are delayed between five and 15 seconds (similar to the three minute inhibit on wireless).
- **Advanced DualCore Signal Processing**
  DualCore signal processing analyzes PIR and microwave signals through the DT7500SN's microcontroller. DualCore processing supports a multitude of advanced functions, including concurrent diagnostics, digital fluorescent light interference filter, digital adaptive microwave threshold, adaptive baselines and bidirectional 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 DT7500SN offers more than the standard features that protect against false alarms due to RF signals, electrostatic discharge and electrical overstress.
- **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, turning on the LEDs if there is a problem.

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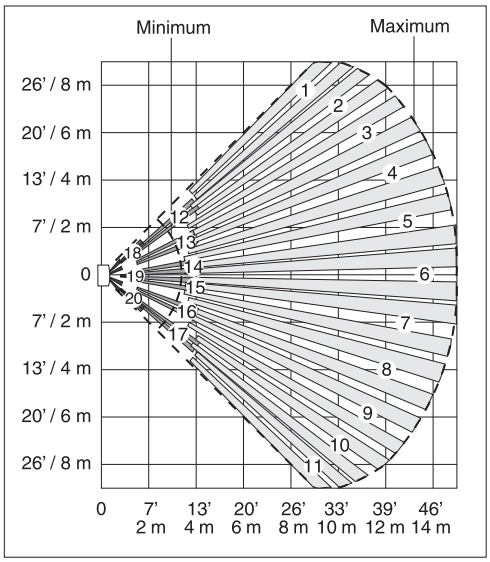
FEATURES

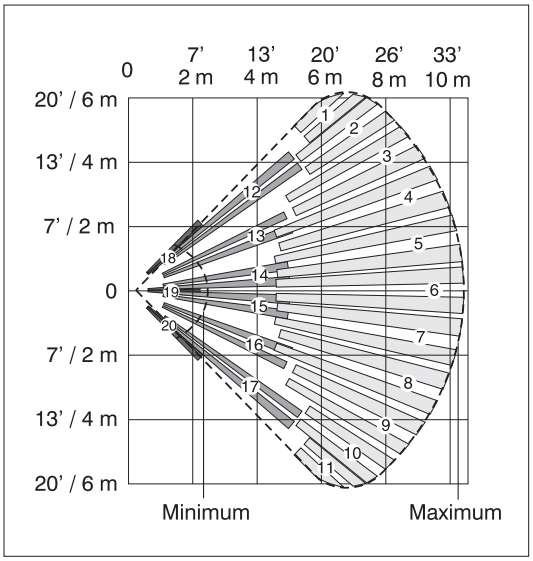
- **Sturdy, Attractive Housing**
  The sleek, sturdy housing fits into a variety of building styles and blends with any room décor. ABS plastic is used for shock and impact protection. The housing offers a convenient wiring channel, knockouts for mounting and wiring and easy access to wiring terminals.
- **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 DT7500SN consistent coverage throughout the protected area.
- **Superior Anti-Mask Protection**
  Through a combination of PIR and microwave signal processing, MaskAlert technology quickly detects intentional and accidental masks or blocks turning on the LEDs when masked.
- **Digital Adaptive Microwave Thresholds**
  The DT7500SN digitally 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 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 automatically selectable between 60 Hz or 50 Hz.
- **Patented Mirror Look Down**
  Provides better coverage up close with multiple zones in the look down area.
- **Global Compliance**
  Our designs meet many of the world’s motion detector standards, including the new EN50131-1. And with K-Band microwave technology, it can be used in virtually every market all around the globe.
- **White Light Immunity**
  A patented black bug guard reduces false detects due to lights by 15%, by providing 6,500 lux of white light immunity. This helps reduce false alarm problems caused by lights, flashlights or reflective objects.
- **Flexible Mountings**
  The DT7500SN family mounts on walls, in corners or on ceilings with the SMB10 family of swivel brackets.

DETECTION PATTERNS

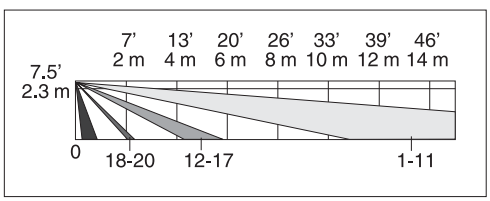
Top View Wide Angle Lens (installed)



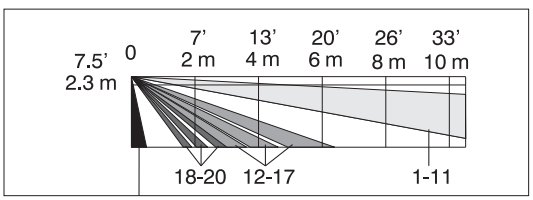
Top View Animal Immune Lens (included)



Side View



Side View



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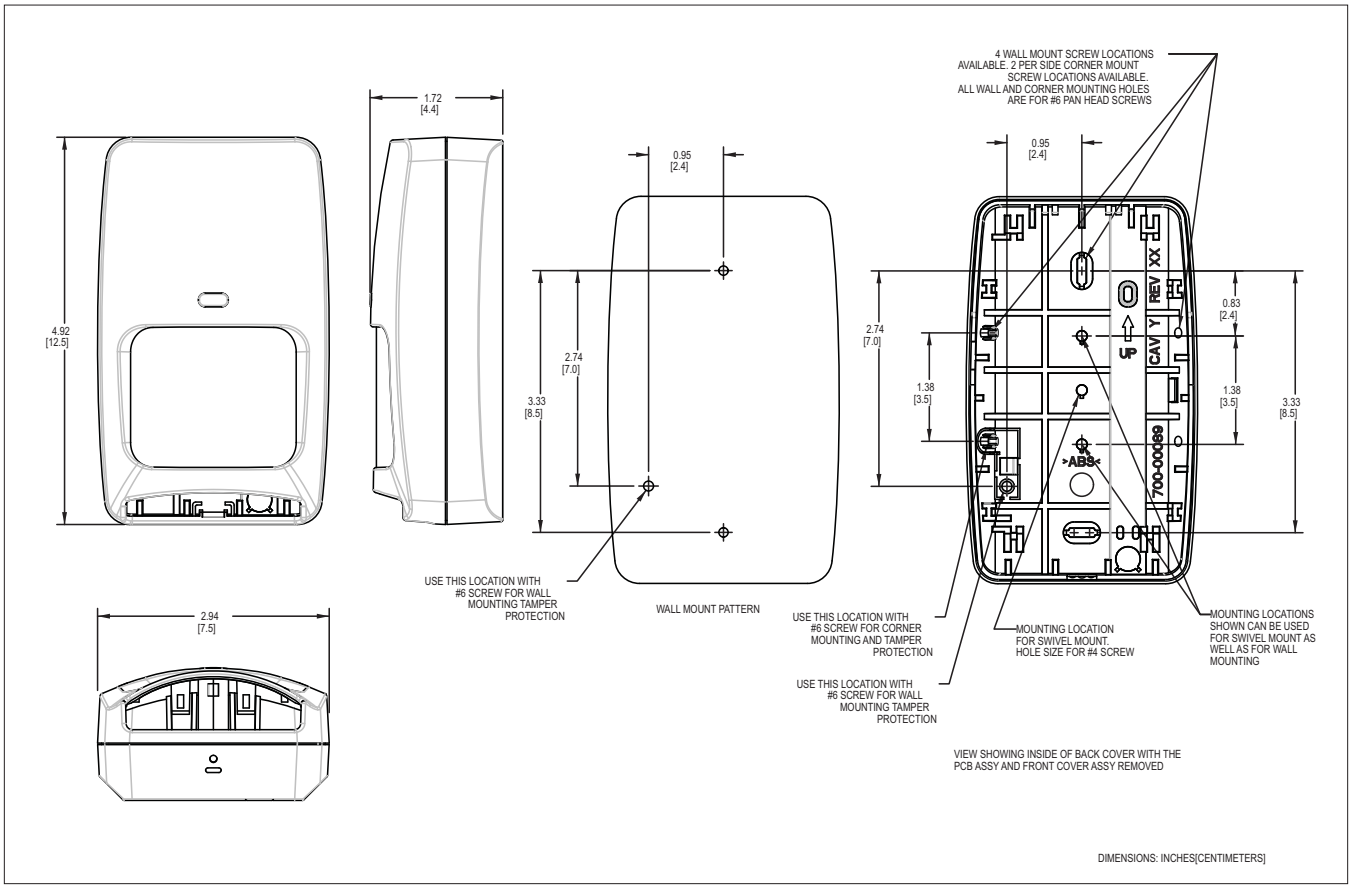
SPECIFICATIONS

- **Range**
  - 50' x 60' (15m x 18m)
  - 35' x 40' (11m x 12m) lens included
- **Mounting Height**
  - 6' – 9' (1.8m – 2.7m)
- **Animal Immunity (with 35' x 40' lens only)**
  - 0, 50 or 100 lbs. selectable
- **Frequencies**
  - 24.125 GHz (K-Band)
- **PIR White Light Immunity**
  - 6,500 Lux typical
- **Current Draw**
  - LED on (in alarm) = 5.7mA typical
  - LED off (quiescent) = 2.6mA typical
- **Fluorescent Light Filter**
  - 50 Hz or 60 Hz, auto detection
- **RFI Immunity**
  - 30V/m, 10 MHz – 1000 MHz
- **Operating Temperature**
  - 4° F to 131° F (-20° C to 55° C) 5% – 95% relative humidity (non-condensing)
- **Self-Test Intervals**
  - Microwave Supervision
  - End-to-end PIR Self-Test
  - Temperature Compensation
- **PIR Fields of View**
  - 44 long range
  - 12 intermediate
  - Six lower
  - Four look-down
- **Dimensions**
  - 4.93" x 2.93" x 1.68" (12.5cm x 7.5cm x 4.3cm)
- **Sensitivity**
  - Low (Pulse count 2): 3-4 steps
  - High (Pulse count 1): 2-3 steps
- **Temperature Compensation**
  - Advanced Dual Slope Temperature Compensation
- **Agency Listings**
  - EN50131-1 Grade 2, Class II
  - cULus pending
  - ETL
  - FCC
  - IC
  - C-Tick
  - CE

MECHANICAL MOUNTING SPECIFICATIONS



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ORDERING

DT7500SN	V-Plex DUAL TEC Motion Sensor

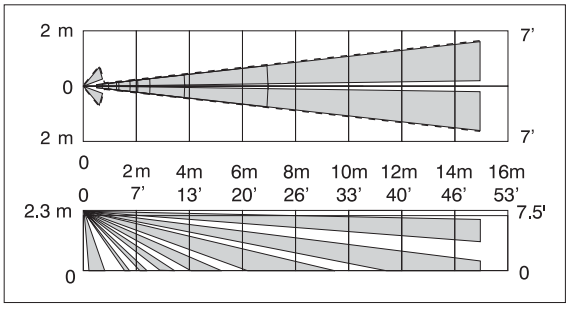
Accessories

DT7000-LRLK	Long Range Lens Kit (10 pack)
DT7000-HSLK	High Security Lens Kit (10 pack)
DT7000-PALK	Pet Alley Lens Kit (10 pack)
0-000-110-01	SMB10 Universal White Swivel Mount Bracket (5 pack)
0-000-111-01	SMB10C Universal White Ceiling Mount Bracket (5 pack)

SMB10

SMB10C

DT7000-LRLK LR Curtain Lens Kit Pattern



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