

DT8050A-SN

V-Plex® Dual Tec® Motion Sensor with Anti-Mask

The next generation of V-Plex PIR and Microwave motion sensors, based on the award-winning DT8000 series, features simple installation, superior detection, and minimal false alarms. The sensors are compatible with VISTA® control panels that support V-Plex devices, using two-wire loop technology to save you time and money.

V-Plex® Patented Polling Loop Technology

By using two wires instead of four, V-Plex offers significant advantages over peer-to-peer wiring or the conventional four-wire multiplex.

For example, since each sensor can be installed using only two wires for both power and data, you spend less money on wiring. V-Plex devices also draw minimal amounts of current, therefore requiring fewer auxiliary power supplies.

Designed for Faster Installation

The DT8050A-SN mounting screw pre-drill collars and retention features, removable connector blocks for easy access, and patented flashlight walk test make installation fast, reducing labor costs and enabling you to move on to the next job quicker.



FEATURES AND BENEFITS

- **High Detection Coverage**
Extremely dense, wide, and long detection coverage compared to similar products in the market.
- **Mirror Optics**
Mirror optics provide the most reliable technology, offering the best detection/false alarm ratio.
- **Removable Terminal Strip**
Our easy-access, removable connector provides flexible wiring and easier mounting during installation.
- **Digital Adaptive Microwave Thresholds**
The DT8050A-SN digitally adjusts thresholds to account for room disturbances, such as ceiling fans and other repetitive moving objects. The result is excellent false alarm immunity even in "active" rooms.
- **Superior IR Anti-Mask Protection**
Highly sensitive, active infrared anti-masking feature can easily detect blocked, sprayed, or obstruction attempts to disable the detector.
- **PIR 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.
- **Selectable Look-Down Zone**
Provides better coverage up close with multiple zones in the look-down area.
- **Flashlight Walk Test**
Reduces installation time as the walk test can be enabled by simply waving a flashlight at the detector and it automatically times itself out.
- **Advanced DualCore Signal Processing (DUAL TEC)**
Supports a multitude of advanced functions, including concurrent diagnostics, digital fluorescent light interference filter, digital adaptive microwave threshold, adaptive baselines, and bidirectional temperature compensation.
- **Global Compliance**
Our designs meet many of the world's motion detector standards, including UL, ULC, SIA, and EN50131-2.

DT8050A-SN

V-Plex[®] Dual Tec[®] Motion Detector with Mirror Optics and Anti-Mask High-Risk Applications

SPECIFICATIONS

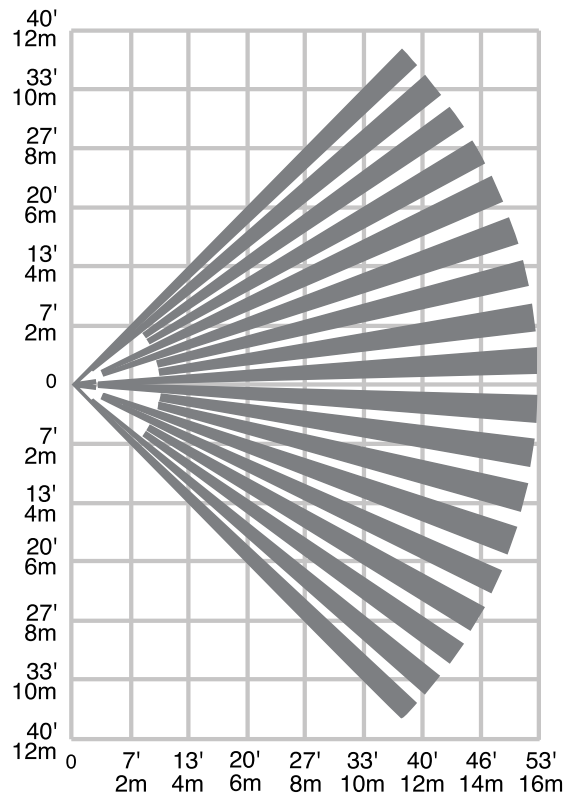
DT8050A-SN	
Type of Detection	PIR (mirror) + Microwave
Range	53' x 72'/16 m x 22 m
Detection Zones	36 long range, 10 intermediate, 12 lower, 2 look-down
Quick Warm Up	< 30 seconds
Microwave Frequency	X-Band: 10.525 GHz
RFI Immunity	20V/m 10-1000 MHz, 15V/m 1000-2700 MHz
Mounting Height	6'9" - 8'9" (2.1m - 2.7m); Optimal 7'6" (2.3m)
Power Requirements	9.0 - 13V PK- PK at polling loop terminals; (UL: 9.5 - 15 VDC); 4 mA maximum
Alarm Relay	Form A/30 mA@25 VDC, max. 22 Ohm/Duration: 3 s
Anti-mask/Trouble Relay	Form B/30 mA@25 VDC, max. 22 Ohm
Tamper	Cover & Wall
Operating Temperature	14°F to 131°F (-10°C to +55°C)
Temp. Compensation	Advanced dual slope
Relative Humidity	5% - 93% non-condensing
RF Immunity	20V/m 10-1000 MHz, 15V/m 1000-2700 MHz
PIR White Light Immunity	6,500 lux typical
Dimensions	4.57" H x 2.76" W x 1.69" D 11.6 cm H x 7.0 cm W x 4.3 cm D
Weight	4.4 oz/125 g (net weight);
Approval Listings	<ul style="list-style-type: none"> FCC part 15, Class B verified IC ICES-003, Class B verified UL 639 ULC S306-03 SIA-PIR-01 passive infrared detector standard features for false alarm immunity

ACCESSORIES	
SMB-10* (P/N 0-000-110-01)	Swivel Mount Bracket
SMB-10C* (P/N 0-000-111-01))	Swivel Mount Ceiling Bracket
SMB-10T* (P/N 0-000-155-01)	Swivel Mount Bracket with Tamper
Cable* (P/N 1103)	General purpose, Solid 22 AWG, 4 conductor
Cable* (P/N 1104)	General purpose, Stranded 22 AWG, 4 conductor
Cable* (P/N 1106)	General purpose, Solid 22 AWG, 6 conductor
Cable* (P/N 1107)	General purpose, Stranded 22 AWG, 6 conductor

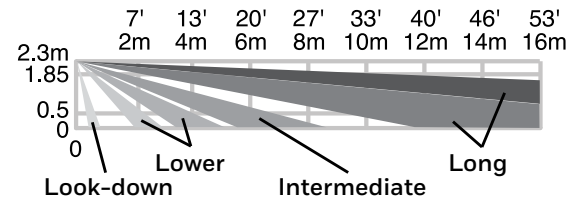
* Not evaluated by UL

Detection Patterns:

Top View



Side View



For more information
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