

# V-PLEX MOTION SENSORS

IS3016A-SN, IS3016M-SN, DT8016AF5-SN,  
DT8016MF5-SN, DT8320AF5-SN, DT8320F5-SN

The next generation of V-Plex® PIR and Microwave motion sensors, based on the award-winning passive infra-red IS3000 and the DUAL TEC® DT8000, features simple installation, superior detection, and minimal false alarms.

V-Plex Motion Sensors are compatible with Honeywell control panels that support V-Plex devices including Honeywell's MAXPRO® Intrusion Control Panel Series and use 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 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 Dual Tech sensors digitally adjust 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 SENSORS)

Supports a multitude of advanced functions, including concurrent diagnostics, digital fluorescent light interference filter, digital adaptive microwave threshold, adaptive baselines, and bidirectional temperature compensation.

### • FALSE ALARM IMMUNITY

The PIR and Dual Tech sensors are designed to meet false alarm standards including NF&A2P two shields and EN50131-2-2 or EN50131-2-4. Microprocessor controls help filter out real signals from false sources.

### • QUICK AND EASY INSTALLATION

Integrated screws, adjustable mounting slots and a rotating mount height adjustment dial (DT8320 only) enable a quick and easy installation for nearly all surfaces and ceiling heights.

### • FLEXIBLE MOUNTINGS

The V-Plex sensor family mounts on walls, in corners or on ceilings, with heights from 2.1m - 2.7m (6.9' - 8.9'). DT8320 Ceiling Mount sensor allows a mounting height of 2.4m (8') to 8m (26') with a maximum detection range of Ø21m (70').



**Honeywell**

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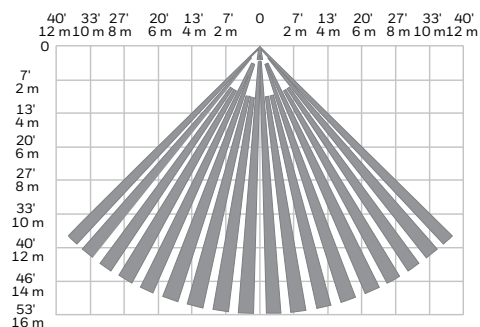
## Specifications

IS3016A-SN, IS3016M-SN, DT8016AF5-SN, DT8016MF5-SN

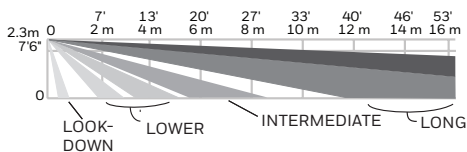
SPECIFICATIONS	IS3016A-SN	IS3016M-SN	DT8016AF5-SN	DT8016MF5-SN
Type of detection	PIR (mirror)	PIR (mirror)	PIR (mirror) + Microwave	PIR (mirror) + Microwave
Range	16m x 22m (53' x 72')	16m x 22m (53' x 72')	16m x 22m (53' x 72')	16m x 22m (53' x 72')
Detection zones	36 long range, 10 intermediate, 12 lower, 2 look-down	36 long range, 10 intermediate, 12 lower, 2 look-down	36 long range, 10 intermediate, 12 lower, 2 look-down	36 long range, 10 intermediate, 12 lower, 2 look-down
Microwave frequency	–	–	10.587 GHz	10.587 GHz
RFI immunity	15V/m, 80 MHz - 2.7 GHz	15V/m, 80 MHz - 2.7 GHz	15V/m, 80 MHz - 2.7 GHz	15V/m, 80 MHz - 2.7 GHz
Mounting height	2.1m - 2.7m (6'9" - 8'9"); Optimal 2.3m (7'6")	2.1m - 2.7m (6'9" - 8'9"); Optimal 2.3m (7'6")	2.1m - 2.7m (6'9" - 8'9"); Optimal 2.3m (7'6")	2.1m - 2.7m (6'9" - 8'9"); Optimal 2.3m (7'6")
Power requirements	9.0 - 13V PK-PK; at polling loop terminals, 3 mA maximum	9.0 - 13 V PK-PK at polling loop terminals; 2.5 mA maximum	9.0 - 13V PK-PK at polling loop terminals; 4 mA maximum.	9.0 - 13V PK-PK; at polling loop terminals, 4 mA maximum
Tamper	Cover & Wall; Form A; 30 mA, 25 VDC	Cover & Wall; Form A; 30 mA, 25 VDC	Cover & Wall; Form A; 30 mA, 25 VDC	Cover & Wall; Form A; 30 mA, 25 VDC
Operating temperature	-10°C to 55°C (14 - 131 °F)	-10°C to 55°C (14 - 131 °F)	-10°C to 55°C (14 - 131 °F)	-10°C to 55°C (14 - 131 °F)
Temp. compensation	Advanced dual slope	Advanced dual slope	Advanced dual slope	Advanced dual slope
Relative humidity	5% - 95% non condensing	5% - 95% non condensing	5% - 95% non condensing	5% - 95% non condensing
PIR white light immunity	10.000 Lux typical	10.000 Lux typical	10.000 Lux typical	10.000 Lux typical
Dimensions (H x W x D)	116 x 70 x 43 mm (4.57" x 2.76" x 1.69")	116 x 70 x 43 mm (4.57" x 2.76" x 1.69")	116 x 70 x 43 mm (4.57" x 2.76" x 1.69")	116 x 70 x 43 mm (4.57" x 2.76" x 1.69")
Weight	118g (4.2 oz)	118g (4.2 oz)	135g (5 oz)	135g (5 oz)
Approved listings	EN50131-2-2:2008, Security Grade 3, Environmental Class II. Suitable for connection to an EN60950 Class II Limited Power Source.	EN50131-2-2:2008, Security Grade 2, Environmental Class II. Suitable for connection to an EN60950 Class II Limited Power Source.	EN50131-2-4:2008, Security Grade 3, Environmental Class II. Suitable for connection to an EN60950 Class II Limited Power Source.	EN50131-2-4:2008, Security Grade 2, Environmental Class II. Suitable for connection to an EN60950 Class II Limited Power Source.

## IS3016A-SN, IS3016M-SN DETECTION PATTERNS

- Top view

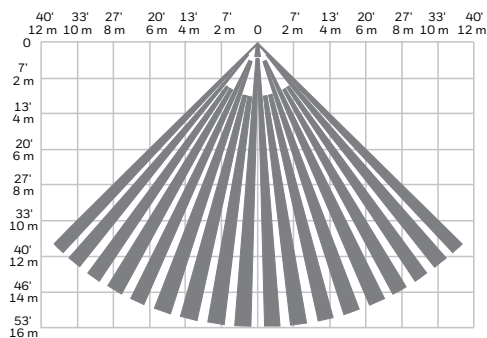


- Side view with zones

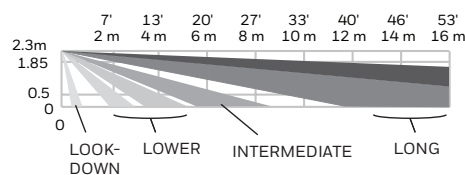


## DT8016AF4-SN, DT8016MF4-SN DETECTION PATTERNS

- Top view



- Side view with zones



# V-PLEX MOTION SENSORS

## Specifications

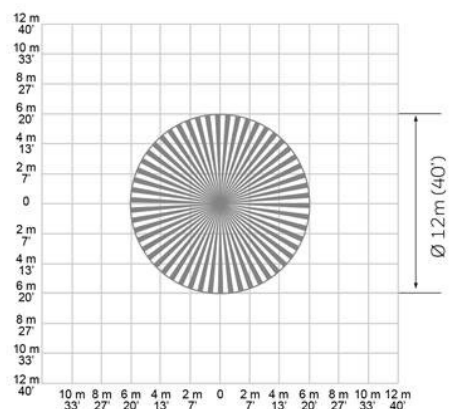
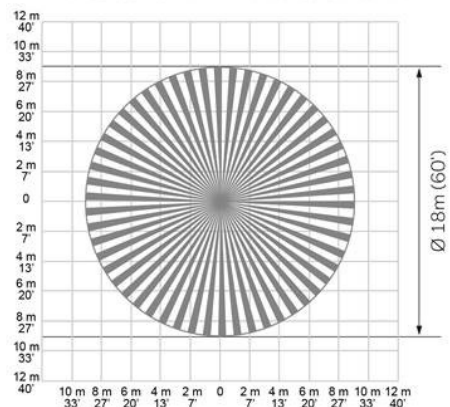
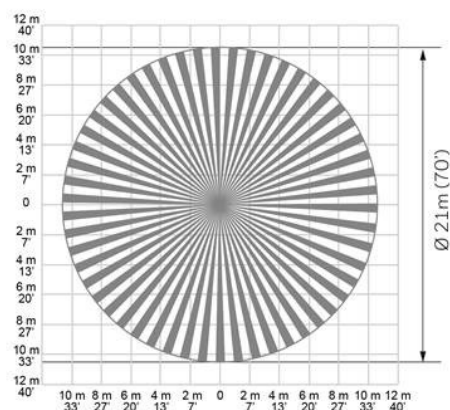
DT8320AF4-SN, DT8320F4-SN

SPECIFICATIONS	DT8320AF5-SN	DT8320F5-SN
Type of detection	PIR (mirror) + Microwave	PIR (mirror) + Microwave
Range	360° Ø 21m (70') max.	360° Ø 21m (70') max.
Microwave frequency	10.587 GHz	10.587 GHz
RFI immunity	10V/m, 80 MHz-2.7 GHz	10V/m, 80 MHz-2.7 GHz
Mounting height	2.4m to 8m (8' - 26')	2.4m to 8m (8' - 26')
Power requirements	9.0 - 15 VDC; 6 mA standby, 20 mA max. @ 12 VDC	9.0 - 15 VDC; 6 mA standby, 20 mA max. @ 12 VDC
Tamper	Cover and Wall; (NC with cover installed) Form A; 30 mA, 25 VDC; Magnetic field	Cover and Wall; (NC with cover installed) Form A; 30 mA, 25 VDC; Magnetic field
Operating temperature	-10 - 55 °C (14 - 131 °F)	-10 - 55 °C (14 - 131 °F)
Temp. compensation	Advanced Dual Slope	Advanced Dual Slope
Relative humidity	5 to 95%; Non-condensing	5 to 95%; Non-condensing
PIR white light immunity	6,500 Lux typical	6,500 Lux typical
Dimensions (H x W x D)	14.8cm x 16.2cm x 4.7cm (5.8" x 6.4" x 1.8")	14.8cm x 16.2cm x 4.7cm (5.8" x 6.4" x 1.8")
Weight	440g (15.5 oz)	440g (15.5 oz)
Approved listings	EN50131-2-4:2008, Security Grade 3, Environmental Class II, NF&A2P three shields	EN50131-2-4:2008, Security Grade 2, Environmental Class II, NF&A2P two shields

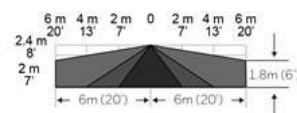
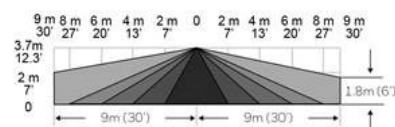
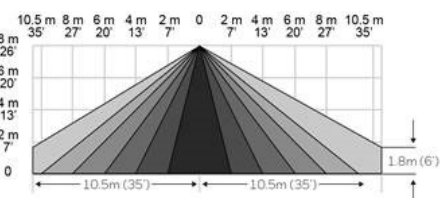
## DT8320AF5-SN, DT8320F5-SN

### DETECTION PATTERNS

• Top view



• Side view



## ORDERING

PIR MOTION DETECTORS	
IS3016A-SN	V-Plex PIR Motion Detector with Anti-Mask, 16m x 22m
IS3016M-SN	V-Plex PIR Motion Detector, 16m x 22m
DUAL TEC MOTION DETECTORS	
DT8016AF5-SN	V-Plex DUAL TEC Motion Detector with Anti-Mask, 16m x 22m
DT8016MF5-SN	V-Plex DUAL TEC Motion Detector, 16m x 22m
DT8320AF5-SN	V-Plex DUAL TEC Ceiling Mount Motion Detector with Mirror Optics and Anti-Mask
DT8320F5-SN	V-Plex DUAL TEC Ceiling Mount Motion Detector with Mirror Optics

## ACCESSORIES

WALL MOUNTED	
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
CEILING MOUNTED	
DT8300-FMK*	Flush Mounting Kit
DT8300-CPM*	Coverage Pattern Masking Set (4 x 60° masks)

\*Not evaluated by approval

### For more information,

[www.honeywell.com/security/uk](http://www.honeywell.com/security/uk)

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