

IS3000 and DT8000 Series IS3035V, IS3050V, DT8035V and DT8050V

Wired PIR and DUAL TEC® Motion Detectors

Designed with the installer in mind, these high performance small form factor motion detectors offer a trouble-free, out of the box experience to simplify the install process and reduce install time. With the passive infrared IS3035V and IS3050V and DUAL TEC DT8035V and DT8050V, optimum performance is achieved using custom developed extended range Fresnel optics, look down, cover and wall tamper, and selectable pet immunity. Leading edge sensing technologies and a wide range of models to suit the requirements of most applications, The Resideo family of IS3000 and DT8000 motion detectors will maximize intruder detection while diminishing false alarms.



FEATURES AND BENEFITS

- **Sleek, Sturdy Housing**

The sleek, sturdy housing blends with any residential or commercial interior and is constructed of ABS plastic for superior shock and impact protection. It contains a convenient wiring channel, knockouts for mounting and wiring, and easy access to terminals. Mounting screws are located in the rear cover—enabling easier installation.

- **Sealed Optics and Electronics**

The optics and electronics are assembled into the front enclosure and sealed with a protective cover to prevent damage during installation. The sealed optical chamber also prevents drafts and insects from affecting the detector.

- **Integrated Screw Retention Features**

To mount the detector on the wall, the installer will insert the screw in the integrated mounting feature where it will be automatically held in place, making mounting the detector easy and quick.

- **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 detector, giving these detectors consistent coverage throughout the protected area. Shorter precision focal lengths mean superior optics and detection.

- **Wall-to-Wall Coverage**

Wide and long detection coverage with look-down zone for coverage range protection that exceeds similar products in the market.

- **Advanced DualCore Signal Processing (DUAL TEC):** DualCore signal processing analyzes PIR and microwave signals through the microcontroller. It supports a multitude of advanced functions, including concurrent diagnostics, digital fluorescent light interference filter, digital adaptive microwave threshold, adaptive baselines and bidirectional temperature compensation.

- **Superior Detection and False Alarm Immunity:** The IS3000 and DT8000 detectors provide superior protection against false alarms without sacrificing catch performance.

- **Pet-friendly Selectivity**

Installers can turn pet immunity on or off with the flip of a DIP switch. When pet immunity is enabled, the detector can distinguish between signals caused by humans and signals caused by pets up to 100 lbs.

- **Selectable Look Down**

Provides better coverage up close with multiple zones in the look-down area. Look down is switch selectable.

- **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.

- **Flashlight Walk Test**

Reduces installation time as the walk test can be enabled by simply waving a flashlight at the detector. Automatically times out.

- **Flexible Mountings**

The IS3000 and DT8000 motion detectors mount on walls or in corners, with heights from 6'9" - 8'9" (2.1 m - 2.7 m).

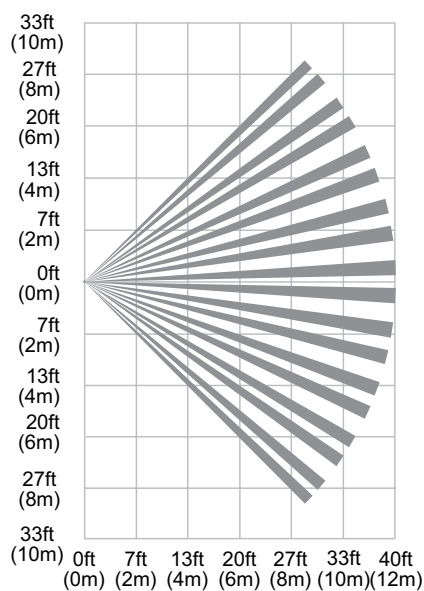
IS3000 and DT8000 Series Technical Specifications

SPECIFICATIONS	IS3035V (PIR)	DT8035V (DUAL TEC)
Range	40' x 56'/12m x 17m	40' x 56'/12m x 17m
Power	9.0 - 15VDC; 11 mA typical, 13mA maximum; AC Ripple: 3 V peak-to-peak at nominal 12VDC	9.0 - 15VDC; 15mA typical, 17mA maximum; AC Ripple: 3 V peak-to-peak at nominal 12VDC
Alarm Relay	Energized Form A; 30mA, 25VDC, 22 Ohms resistance maximum. Alarm Relay Duration: 3 seconds	Energized Form A; 30mA, 25VDC, 22 Ohms resistance maximum. Alarm Relay Duration: 3 seconds
Tampers	Cover & Wall; (NC with cover installed) Form A; 30mA, 25VDC	Cover & Wall; (NC with cover installed) Form A; 30mA, 25VDC
Microwave Frequency	-	10.525 GHz
RFI Immunity	20V/m 10-1000 MHz, 15V/m 1000-2700 MHz	20V/m 10-1000 MHz, 15V/m 1000-2700 MHz
PIR White Light Immunity	6,500 Lux typical	6,500 Lux typical
Fluorescent Light Filter	-	50 Hz/60 Hz
Operating Temperature	14°F to 131°F /-10°C to 55°C	14°F to 131°F /-10°C to 55°C
Relative Humidity	5 to 93%; non-condensing	5 to 93%; non-condensing
Temperature Compensation	Advanced Dual Slope	Advanced Dual Slope
Dimensions	3.86" H x 2.24" W x 1.69" D/ 9.8cm H x 5.7cm W x 4.3cm D	3.86" H x 2.24" W x 1.69" D/ 9.8cm H x 5.7cm W x 4.3cm D
Weight	3 oz/85 g (net weight)	3.6 oz/102 g (net weight)
Pet Immunity	≤ 80 lbs./36kg	≤ 100 lbs./45kg

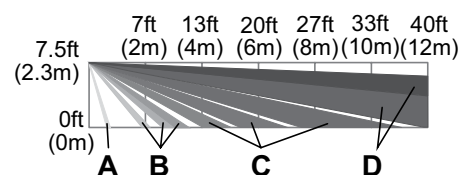
IS3035V/DT8035V DETECTION PATTERNS

Top View

PLAN VIEW ALL ZONES



Side View



Zones

A	2 Look-down
B	18 Lower
C	46 Intermediate
D	36 Long

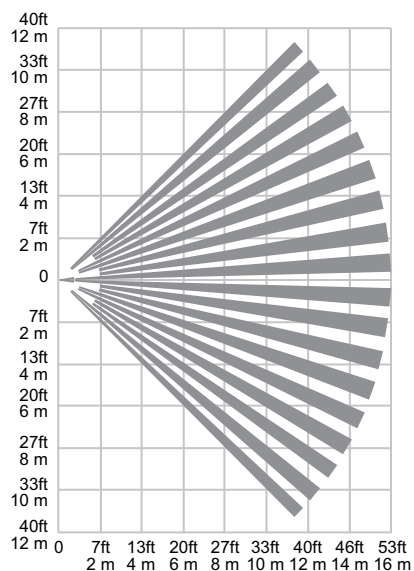
IS3000 and DT8000 Series Technical Specifications

SPECIFICATIONS	IS3050V (PIR)	DT8050V (DUAL TEC)
Range	53' x 72'/16m x 22m	53' x 72'/16m x 22m
Power	9.0 - 15VDC; 11 mA typical, 13mA maximum; AC Ripple: 3 V peak-to-peak at nominal 12VDC	9.0 - 15VDC; 15mA typical, 17mA maximum; AC Ripple: 3 V peak-to-peak at nominal 12VDC
Alarm Relay	Energized Form A; 30mA, 25VDC, 22 Ohms resistance maximum. Alarm Relay Duration: 3 seconds	Energized Form A; 30mA, 25VDC, 22 Ohms resistance maximum. Alarm Relay Duration: 3 seconds
Tamper	Cover & Wall; (NC with cover installed) Form A; 30mA, 25VDC	Cover & Wall; (NC with cover installed) Form A; 30mA, 25VDC
Microwave Frequency	-	10.525 GHz
RFI Immunity	20V/m 10-1000 MHz, 15V/m 1000-2700 MHz	20V/m 10-1000 MHz, 15V/m 1000-2700 MHz
PIR White Light Immunity	6,500 Lux typical	6,500 Lux typical
Fluorescent Light Filter	-	50 Hz/60 Hz
Operating Temperature	14°F to 131°F /-10°C to 55°C	14°F to 131°F /-10°C to 55°C
Relative Humidity	5 to 93%; non-condensing	5 to 93%; non-condensing
Temperature Compensation	Advanced Dual Slope	Advanced Dual Slope
Dimensions	3.86" H x 2.24" W x 1.69" D/ 9.8cm H x 5.7cm W x 4.3cm D	3.86" H x 2.24" W x 1.69" D/ 9.8cm H x 5.7cm W x 4.3cm D
Weight	3 oz/85 g (net weight)	3.6 oz/102 g (net weight)

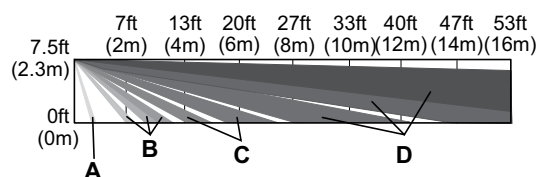
IS3050V/DT8050V DETECTION PATTERNS

Top View

PLAN VIEW ALL ZONES



Side View



ZONES

A	2 Look-down
B	18 Lower
C	20 Intermediate
D	54 Long

IS3000 and DT8000 Series Technical Specifications

APPROVAL LISTINGS:

UL 639
ULC S306-03
SIA PIR-01-2000
FCC part 15, Class B verified
IC ICES-003, Class B verified
SIA-PIR-01 Passive Infrared
detector standard features
for false alarm immunity

ORDERING

IS3035V	PIR Motion Detector, 35 foot
IS3050V	PIR Motion Detector, 50 foot
DT8035V	DUAL TEC Motion Detector, 35 foot
DT8050V	DUAL TEC Motion Detector, 50 foot

Note: Resideo reserves the right to alter the specification of products without prior notice.



For more information
resideo.com

Resideo Technologies, Inc.
2 Corporate Center Drive,
Suite 100
P.O. Box 9040
Melville, NY 11747
1-800-645-7492

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