



IS3000 and DT8000 Series IS3050A, DT8050A and DT8050M

Wired PIR and Dual Tec® Motion Detectors with Mirror Optics and Anti-Mask For High-Risk Applications

Designed for high security commercial indoor environments and large residences, the new IS3050A and DT8050A detectors with anti-masking technology quickly detect intentional and accidental masks or attempts to block the detector, ensuring a trouble condition is immediately sent to the control panel. Anti-masking technology combined with Honeywell Home patented sensing technologies, high quality mirror optics and microprocessor-based DualCore signal processing, will improve catch performance and reduce false alarm and trouble conditions.

Beneath the two-piece, easy-open enclosure, installers will find easy access to the wiring terminal and built-in features which simplify the installation experience and reduce installation time. Furthermore, the new detectors come equipped with integrated EOL resistors with easy selectable DIP switches and enhanced flash light walk test which reduce time and trips up and down the ladder.

With the DT8050A and DT8050M, optimum performance is achieved using X-Band microwave technology and precision quality mirror-based optics for exceptionally high detection sensitivity and false alarm immunity.



FEATURES AND BENEFITS

- **High Detection Coverage:** Extremely dense, wide and long detection coverage compared to the similar products of the market.
- **Mirror Optics:** Mirror optics provide the most reliable technology, offering the best detection/false alarm ratio.
- **On-board EOL Resistors:** No need to add external resistors for zone supervision. Simply flip a DIP switch to suit your control panel.
- **Removable Terminal Strip:** Our new, easy-access removable connector provides flexible wiring and easier mounting during installation.
- **Digital Adaptive Microwave Thresholds:** The DT8050A and DT8050M digitally adjust thresholds to account for room disturbances such as ceiling fans and other repetitive moving objects. The result – excellent false alarm immunity even in “active” rooms.
- **Self-test Patented Solution:** The detector tests the full microwave circuit periodically by sending and receiving a test signal. In case of any anomaly, the detector triggers the anti-mask/trouble relay.
- **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.
- **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. Automatically times out.
- **Vibration Patented Solution:** Built-in shock feature. In case of vibration, this component overrules the PIR signal and assures the device stays in dual mode permanently.
- **Integrated Screw Retention Features:** Honeywell Home patented integrated mounting feature holds screws in place—enabling a quick, easy install.
- **Flexible Mountings:** The IS3000 and DT8000 motion detectors mount walls or in corners, with heights from 6' 9" - 8' 9" (2.1 m - 2.7 m).
- **Global Compliance:** Our designs meet many of the world's motion detector standards, including UL, ULC, SIA and EN50131-2.

IS3000 and DT8000 Series Technical Specifications

SPECIFICATIONS:	IS3050A, DT8050A AND DT8050M
Type of Detection	IS3050A: PIR (mirror); DT8050A and DT8050M: PIR (mirror) + Microwave
Range	53' x 72/16 m x 22 m
Internal EOL Resistors	Alarm and tamper: 1K, 2K, 2.2K and 5.6K; default = 2K
Detection Zones	36 long range, 10 intermediate, 12 lower, 2 look-down
Quick Warm Up	< 30 seconds
Microwave Frequency	DT8050A and DT8050M: X-Band: 10.525 GHz
RFI Immunity	15 V/m, 80 MHz – 2.7 GHz
Mounting Height	7.5 ft/2.3m optimal
Power Requirements	(UL: 9.5 - 15VDC)
Consumption at Ambient Temp.	1.5 mA typical
Alarm Relay	Form A/30 mA@25 Vdc, max. 22 Ohm/Duration: 3 s
Anti-Mask/Trouble Relay (not available on DT8050M)	Form B/30 mA@25 Vdc, max. 22 Ohm
Tamper	Form A/30 mA@25VDC – 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 10-1000MHz, 15V/m 1000-2700MHz
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	IS3050A: 4.4 oz/125 g (net weight); DT8050A & DT8050M: 5 oz/142 g (net weight)
Approval Listings	<ul style="list-style-type: none"> • UL 639 • ULCS306-03 • SIA PIR-01-2000 • FCC part 15, Class B verified • IC ICES-003, Class B verified

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

ORDERING

IS3050A	PIR Motion Detector with Mirror Optics and Anti-Mask
DT8050A	DUAL TEC Motion Detector with Mirror Optics and Anti-Mask
DT8050M	DUAL TEC Motion Detector with Mirror Optics
Accessories*:	
SMB10	Swivel Mount Bracket (0-000-110-01)
SMB10C	Swivel Mount Ceiling Bracket (0-000-111-01)
SMB10T	Swivel Mount Bracket with Tamper (0-000-155-01)
DT8G3IRW5PK	Replacement IR Window Kit – 5 Pack
2103	Riser Rated Cable, Solid 22 AWG, 4 Conductor
3103	Plenum Rated Cable, Solid 22 AWG, 4 Conductor

*Accessories not evaluated by UL.



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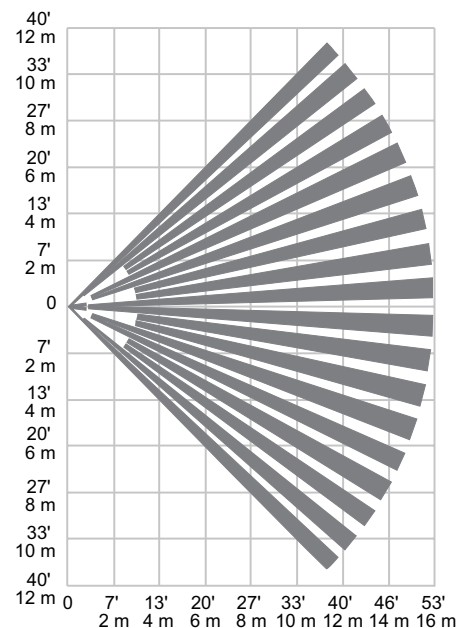
2 Corporate Center Drive, Suite 100
P.O. Box 9040
Melville, NY 11747
1-800-645-7492
resideo.com

For more information: security.honeywellhome.com/hsc

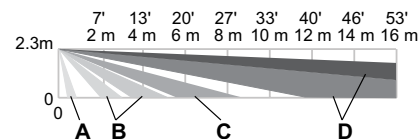
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Detection Patterns:

Top View



Side View



Zones

A	2 Look-down
B	12 Lower
C	10 Intermediate
D	36 Long

