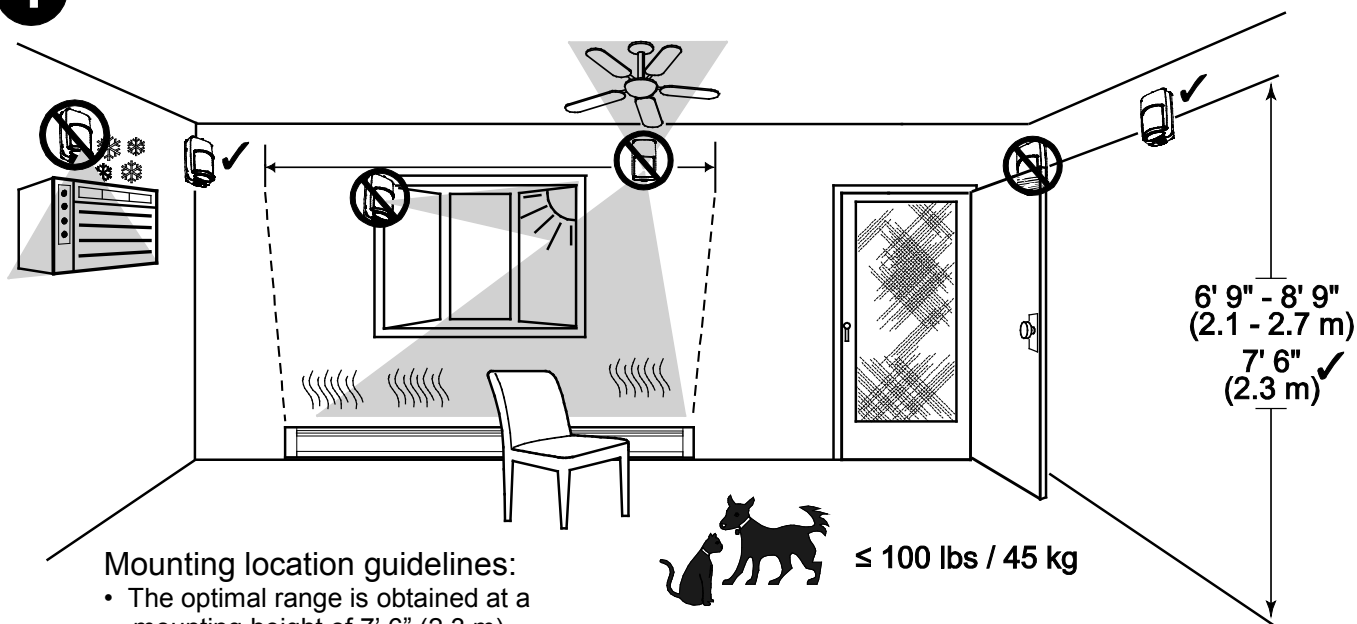


DT8035 DUAL TEC® Motion Sensor – Installation Instructions

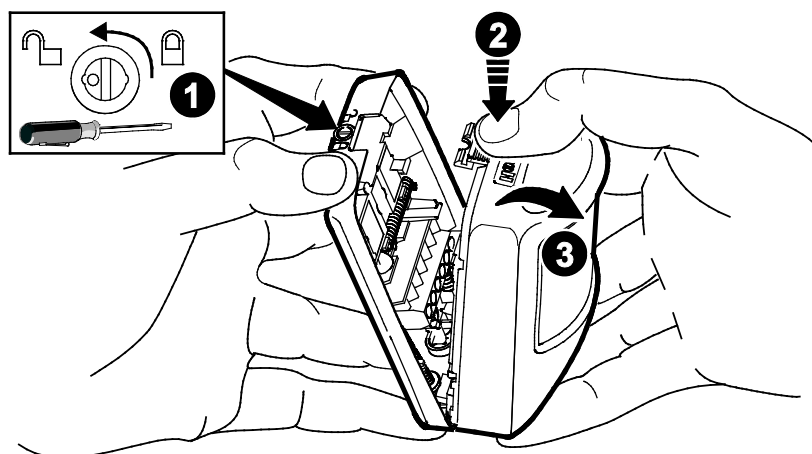
QUICK LINKS

[Mounting Location Guidelines](#)
[Open the Sensor](#)
[Mount the Sensor](#)
[Sensor Components and Settings](#)
[Wire the Sensor](#)
[Walk Test the Sensor](#)
[Detection Patterns](#)
[Relay Operation](#)
[Troubleshooting](#)
[Sensor Specifications](#)
[Accessories](#)
[Approval Listings](#)

1 SELECT THE MOUNTING LOCATION



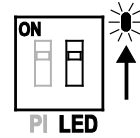
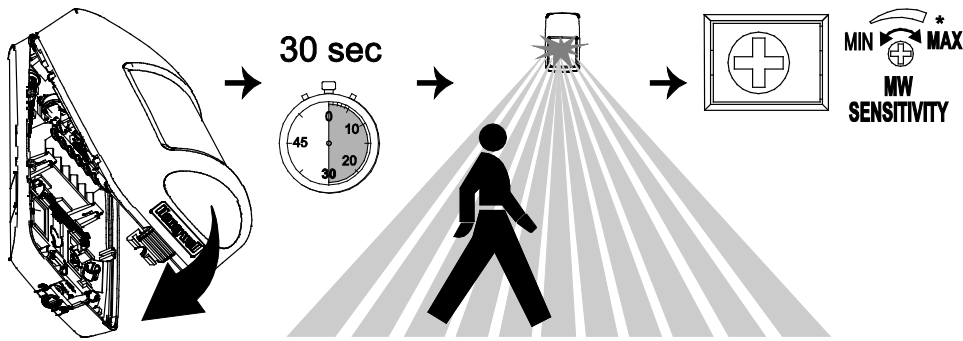
2 OPEN THE SENSOR



1. Turn the arrow to point to the Unlock symbol.
2. Press firmly on housing latch.
3. Gently separate the front and rear housing.



6 WALK TEST THE SENSOR AND ADJUST AS NEEDED



LED	Power Up	Walk Test	Normal	Trouble
Red	Slow Blink	ON Alarm	ON Alarm	Fast Blink
Yellow	OFF	ON Microwave	ON Microwave	OFF
Green	OFF	ON PIR	ON PIR	OFF

1. Apply power to the sensor. Initialization is complete when the LED stops flashing slowly (about 30 seconds).
2. Turn the microwave sensitivity counterclockwise to reduce the microwave range (minimum = 16.4' / 5m) and close the sensor.
3. Walk through the detection area and observe the LED.
4. Adjust the microwave range as necessary to meet installation requirements.

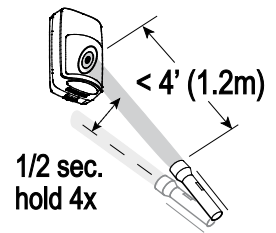
Walk test mode is active for 10 minutes, then automatically exits test mode, disables the LED and enters normal operation mode. For an additional 10 minute walk test, enable walk test mode again with the flashlight feature:

Note: During power up and walk test modes the LED is active regardless of the LED Enable/Disable DIP switch setting.

Flashlight Feature:

1. Use a flashlight with a bright light beam, and stand within 4' (1.2 m) of the sensor.
2. Swing the light beam past the sensor IR window 3-5 times, holding the beam on the window for 0.5 second each pass.

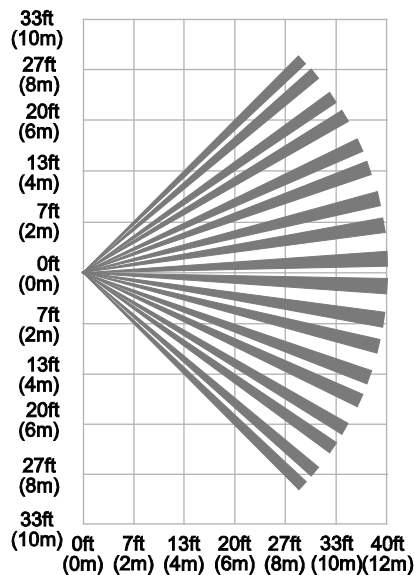
The flashlight feature is only available for the first 24 hours after the first power up.



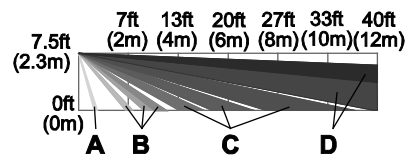
7 DETECTION PATTERNS

Top View

PLAN VIEW
ALL ZONES



Side View



Zones

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

RELAY OPERATION

	SENSOR STATUS		
	Normal	Intrusion	Trouble ¹
Alarm Relay	Closed	Open	Open

¹ For information on Trouble conditions, see the [Troubleshooting](#) section.

TROUBLESHOOTING

	NORMAL	TROUBLE*
		Self-Test Failure ¹
Alarm Relay	Closed	Open
Red LED	Off	Flashing

*TROUBLE CONDITIONS:

¹ Self-Test Failure conditions:

- Microwave supervision failure: The sensor is operating in PIR mode only.
- PIR self-test failure: The sensor is disabled.
- Temperature compensation failure: The temperature compensation is disabled.

Depending on the Trouble condition, take the following corrective actions:

- Verify the power supply is sufficient (at least 9V at the sensor).
- Cycle power to the sensor.
- [Walk test](#) the sensor.

If the Trouble condition does not clear, replace the sensor.

SPECIFICATIONS

Range: 40' x 56' / 12 m x 17 m

Wall Mounting Height: 6'9" - 8'9" (2.1 m - 2.7 m); Optimal 7'6" (2.3 m)

Power: 9.0-15 VDC (UL: 9.5-15 VDC); 15 mA typical, 17 mA maximum;
AC Ripple: 3 V peak-to-peak at nominal 12 VDC

Alarm Relay: Energized Form A; 30 mA, 25 VDC, 22 Ohms resistance maximum. Alarm Relay Duration: 3 seconds

Tampers: Cover & Wall; (NC with cover installed) Form A;
30 mA, 25 VDC

Microwave Frequencies: 10.525 GHz

RFI Immunity: 20V/m 10-1000MHz, 15V/m 1000-2700MHz

PIR White Light Immunity: 6,500 Lux typical

Fluorescent light filter: 50 Hz / 60 Hz.

Operating Temperature: 14° to 131° F / -10° to 55° C

Relative Humidity: 5 to 93% (UL tested at 93%); non-condensing

Temperature Compensation: Advanced Dual Slope

Dimensions: 3.86" H x 2.24" W x 1.71" D /
9.8 cm H x 5.7 cm W x 4.35 cm D

Weight: 3.6 oz / 102 g (net weight)

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 w/Tamper
DT8-G2 Lens Kit (P/N DT8G2LENS5PK)	Replacement Fresnel Lens Kit – 5 Pack
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

* These accessories have not been evaluated by UL.

APPROVAL LISTINGS

- 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.



Product must be tested at least once each year.

All wiring must be in accordance with: the National Electrical Code (ANSI/NFPA70); the Canadian Electrical Code, Part I (where applicable); UL681, Standard for Installation and Classification of Burglar and Holdup Alarm Systems; ULC-S302, Standard for Installation and Classification of Burglar Alarm Systems for Financial and Commercial Premises, Safes and Vaults; ULC-S310, Standard for Installation and Classification of Residential Burglar Alarm Systems; local codes and the authorities having jurisdiction.

The products are intended to be powered by a power-limited output of a UL/CUL Listed Burglar Alarm control unit, or via a Listed UL603/ULC-S318 power-limited power supply that provides 4 hours of standby power.

The sensor must be mounted indoors, within the protected premises, and on a wooden stud, solid wood or with a robust wall anchor.

UL Notes: All interconnecting devices must be UL listed. The pet immunity feature has not been evaluated by UL.

FEDERAL COMMUNICATIONS COMMISSION STATEMENTS

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

CLASS B DIGITAL DEVICE STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA CLASS B STATEMENT

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC / IC STATEMENT

This device complies with Part 15 of the FCC Rules, and RSS210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS 210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

For the latest documentation and online support information, please go to:
<http://www.security.honeywell.com/hsc/resources/MyWebTech/>

For the latest U.S. warranty information, please go to: www.honeywell.com/security/hsc/resources/wa or
Please contact your local authorized Honeywell representative for product warranty information.