DT8016F24 DUAL TEC® Motion Sensor - Installation Instructions

QUICK LINKS

Mounting Location Guidelines

Open the Sensor

Mount the Sensor

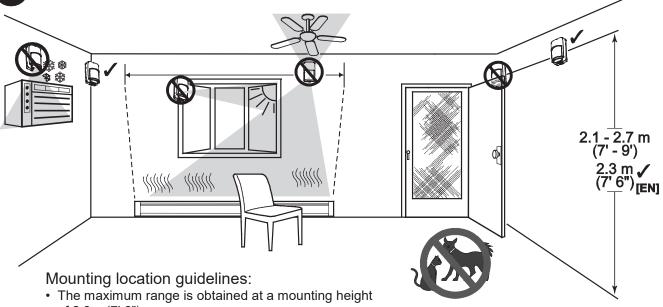
Sensor Components and Settings

Wire the Sensor

Wiring Example
Walk Test the Sensor
Detection Patterns
Relay Operation
Troubleshooting

Sensor Specifications Accessories Approval Listings

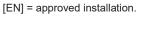
1 SELECT THE MOUNTING LOCATION



of 2.3m (7' 6").

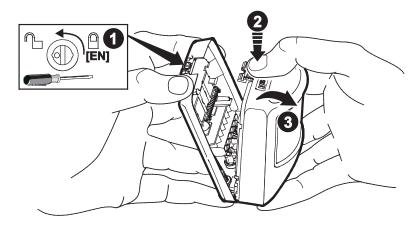
• Allow a clear line-of-sight to all areas to protect.

- · Do not directly face windows.
- Avoid close proximity to moving machinery, fluorescent lights, and heating/cooling sources.
- · Not for use in applications with pets.





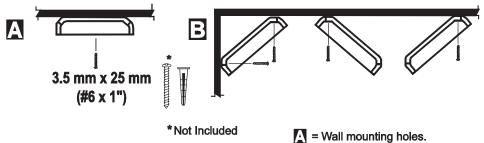
2 OPEN THE SENSOR

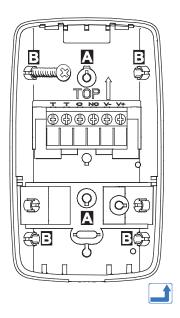


- 1. Turn the arrow to point to the Unlock symbol.
- 2. Press firmly on housing latch.
- 3. Gently separate the front and rear housing.

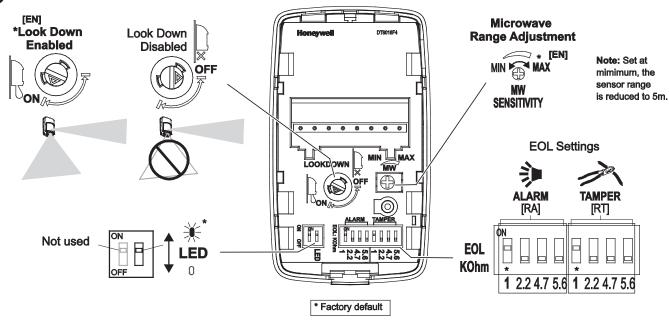






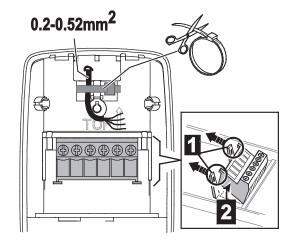


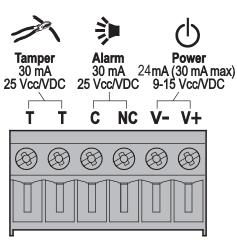
4 SENSOR COMPONENTS AND SETTINGS



= Corner mounting holes.

5 WIRE THE SENSOR





See wiring details and example on page 3.



WIRING DETAILS

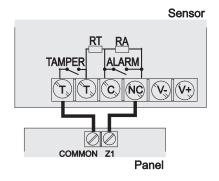
- Observe proper polarity.
- If not using the integrated EOL resistors, set all switches to OFF.
- If using the integrated EOL resistors:
 - 1. Connect the sensor to the panel (see wiring diagrams below).
 - 2. Set the appropriate alarm and tamper DIP switches to ON (see Step 4 on page 2).

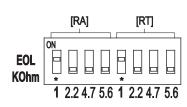
Notes:

- Consult the Control Panel manual to determine proper EOL selection.
- The Alarm and Tamper EOL settings must each only have one switch ON.
- The EOL values should be set at the same time.

Wiring Example

Alarm and Tamper configured to one loop.

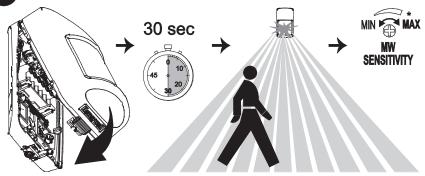






RA = Alarm EOL resistor RT = Tamper EOL resistor

WALK TEST THE SENSOR AND ADJUST AS NEEDED





- 1. Close the sensor and apply power to the sensor. Initialization is complete when the LED stops flashing slowly (about 30 seconds).
- 2. Walk through the detection area and observe the LED.
- 3. 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.

LED	Power Up	Walk Test	Normal	Trouble
LED		[10 min.]	Normai	Fault
Red	Slow Blink	ON Alarm	ON Alarm	Fast Blink
Yellow	OFF	ON Microwave	OFF	OFF
Green	OFF	ON PIR	OFF	OFF

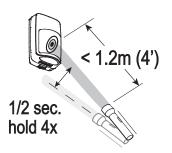
Flashlight Feature:

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

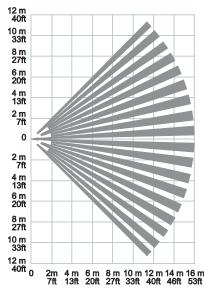
The flashlight feature is only available for the first 24 hours after the first power up.

Notes:

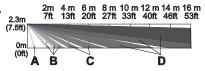
- During power up and walk test modes the LED is active regardless of the LED Enable/Disable DIP switch setting.
- When the microwave sensitivity is set to minimum, the sensor range is reduced to 5m.







Side View



Zones

Α	2 Look-down		
В	18 Lower		
С	20 Intermediate		
D	54 Long		

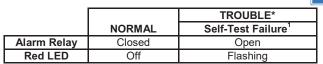


RELAY OPERATION

	SENSOR STATUS		
	Normal	Intrusion	Trouble ¹
Alarm Relay	Closed	Open	Open

¹ For information on Trouble conditions, see the Troubleshooting section.

TROUBLESHOOTING



TROUBLE CONDITIONS:

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

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: 16 m x 22 m

Power: 9.0 - 15 VDC; 24 mA typical, 30 mA maximum, 12 VDC;

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

Trouble Relay: Energized Form B; (NC) 30 mA, 25 VDC; 22 Ohms

resistance maximum

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

magnetic field

Microwave Frequencies: DT8016F24- 24.200 GHz

RFI Immunity: 15 V/m, 80 MHz - 2.7 GHz PIR White Light Immunity: 10,000 Lux typical Fluorescent light filter: 50 Hz / 60 Hz. Operating Temperature: -10° to 55° C Relative Humidity: 5 to 95%; non-condensing Temperature Compensation: Advanced Dual Slope Dimensions: 9.85 cm H x 5.7 cm W x 4.4 cm D

Weight: 94.7 g / 3.34oz (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	

Note: The accessories are not covered by certifications.

APPROVAL LISTINGS



EN50131-2-4, Security Grade 2, Environmental Class II.

Suitable for connection to an EN 60950 Class II Limited Power Source

Note: In EN 50131-2-4 compliant installations, mount the sensor at 2.3m. enable look down, set the microwave sensitivity to maximum and lock the sensor housing with the cover lock (see "[EN]" where noted in Steps 1-4).

IMPORTANT: The sensor should be tested at least once each year.



NF&A2P 2 boucliers (référentiel NF324-H58) et conforme aux normes EN50131-2-4 et RTC50131-2-4; IP30 IK04

DT8016F24 - N° de certificat: XXXXXXXXXX

Organisme de certification: CNPP Cert. : www.cnpp.com et AFNOR Cert.: www.marque-nf.com



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