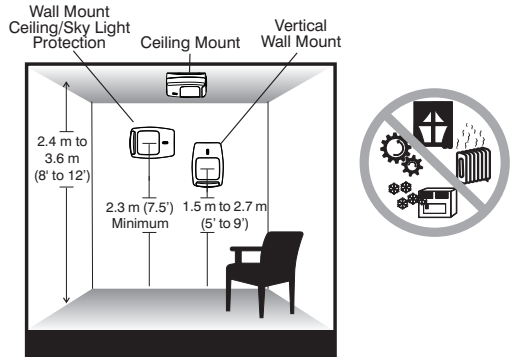
IntelliSense® IS216T-CUR Passive Infrared Motion Sensor Installation Instructions

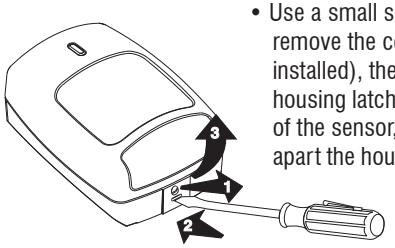
❶ Select the mounting location.



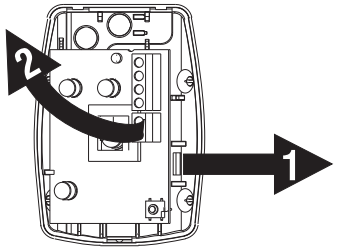
Mounting Location Guidelines

- Mounting Height: *Walls:* vertical position -- 1.5 m to 2.7 m (5' to 9'); horizontal position -- 2.3 m (7.5') minimum.
  Ceiling: 2.4 m to 3.6 m (8' to 12').
- Avoid direct or reflected sunlight.
- Aim sensor away from windows or heating/cooling devices.
- Sensor must have a clear line-of-sight to protected area.

❷ Separate the sensor housings and remove the printed circuit board (PCB).

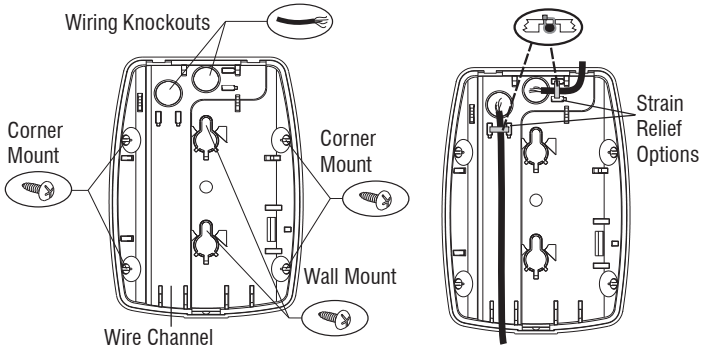


- Use a small screwdriver to remove the cover screw (if installed), then push in the housing latch at the bottom of the sensor, and gently pull apart the housings.



- Push outward on the PCB latch and lift the PCB out of the housing.

❸ Mount the unit.

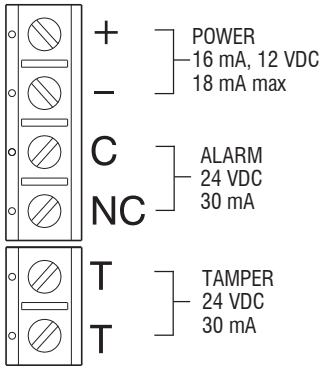


- Slide the wire through the wire knockouts in the back housing, attach the wire with a wire tie, and cut off the excess wire tie.
- Mount the back housing flat against a wall or in a corner using #6 screws.

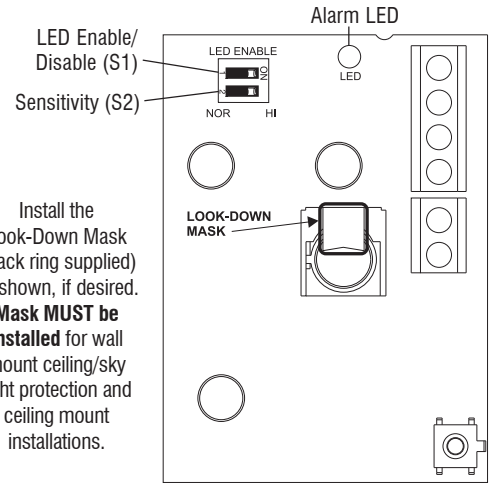
[Note: if using a mounting bracket (see Accessories), follow the installation instructions supplied with the bracket.]

- Replace the PCB.

❹ Wire the unit. Connect wires as shown using wire size 0.8 - 1.5 mm (22 to 16 AWG). Observe proper polarity.



❺ Set the DIP switch settings (see Step 6).



Install the Look-Down Mask (black ring supplied) as shown, if desired. **Mask MUST be installed** for wall mount ceiling/sky light protection and ceiling mount installations.

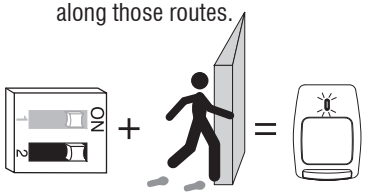
SWITCH	OFF	ON
1*	LED Disabled	LED Enabled
2	Low Sensitivity	High Sensitivity

(**Note:** Default switch settings shown in grey.)
*Refer to LED Operation Section.

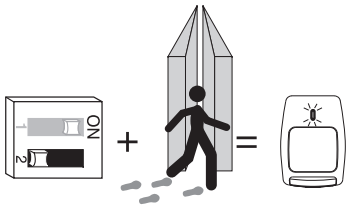
❻ Configure the sensitivity and walk-test the sensor.

Set the sensitivity appropriate for the application (see options below), replace the front cover, and apply power to the sensor. Begin walk-test after the LED stops flashing (see LED Operation section). Walk through the detection zones, observing the sensor's LED whenever motion is detected. The red LED shows actual alarm relay operation.

The absolute range of all PIR units is subject to variation because of different types of clothing, backgrounds, and ambient temperature. For this reason, ensure that the most likely intruder routes are well within the PIR's detection zones and that walk-testing is carried out along those routes.



High Sensitivity (Pulse Count 1)
NOTE: This is the recommended setting for this sensor.



Low Sensitivity (Pulse Count 2)
NOTE: If Pulse Count 2 is used, be sure to thoroughly walk-test the sensor.

IntelliSense® IS216T-CUR Passive Infrared Motion Sensor Product Information

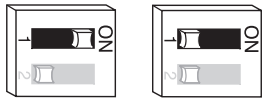
MOUNTING LOCATION GUIDELINES

The IS216T-CUR is designed for use indoors. The sensor can be corner, wall, or bracket mounted (see Accessories section). Make sure that the sensor has a clear line-of-sight to the protected area: infrared energy cannot penetrate solid objects, and the sensor must "see" an area in order to detect a moving person. The sensor should be pointed into the room interior, and away from windows and heating/cooling sources. Additionally, the sensor should be installed on a surface where the temperature is similar to that of the area being protected and **not** pointed at direct or reflected sunlight.

LED OPERATION

To Enable the alarm LED, turn switch S1 ON.

To Disable the alarm LED, turn switch S1 OFF. The LED will temporarily remain enabled for 10 to 12 minutes. This feature gives the installer time to walk-test the unit as explained below.



LED Enabled LED Disabled

Automatic Walk-Test Mode with alarm LED disabled (switch S1 OFF):

After applying power to the sensor, it will warm up for up to two minutes, and then the LED will temporarily remain enabled for a 10 minute walk-test period. After 10 minutes, the LED will automatically switch to disabled.

OPERATION			
Conditions	Alarm LED		Alarm Relay
	Enabled	Disabled	
Warm Up (up to 2 min.)	Slow Blink	Slow Blink	Closed
Normal	OFF	OFF	Closed
Alarm	ON for 3 seconds	*See LED Operation	Opened for 3 seconds
Trouble	Fast Blink	Fast Blink	See Troubleshooting

To restart the 10 minute walk-test mode, switch S1 ON, and then OFF again.

TROUBLESHOOTING

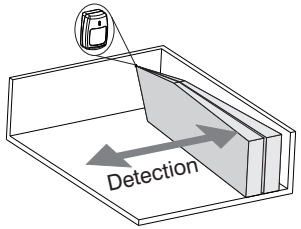
- **Symptom:** Sensor is not operating.
  Corrective Action: Check to make sure the Power terminals are wired correctly. If the power terminals are wired correctly, and the sensor does not operate when power is applied, replace the sensor.
- **Symptom:** Fast Blinking LED -- Trouble condition; two possible causes.
  1. *Temperature Compensation failure*: The sensor checks temperature once every 100ms. When a Temparture Compensation failure occurs, the sensor defaults to room temperature sensitivity and continues to operate normally while signalling trouble. The trouble is stored in memory, and when the next valid alarm condition is detected, the alarm relay latches open.
  2. *PIR self-test failure*: In the absence of PIR signals, the sensor internally checks its PIR circuit once every ten minutes. If six consecutive self-tests fail, the sensor signals trouble with its LED, and the relay latches closed. Subsequent detection of a valid PIR Signal will clear the trouble, and the relay will return to normal operation.

  Corrective Action: Replace the sensor.

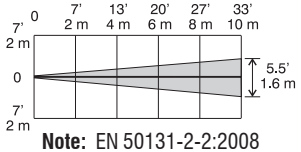
IMPORTANT: The IS216T-CUR should be tested at least **once each year.** For proper wiring methods, refer to the National Electrical Code NFPA 70.

DETECTION PATTERNS

VERTICAL ORIENTATION WALL MOUNT

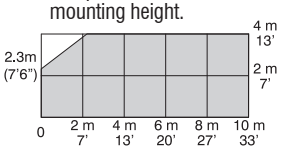


Top View



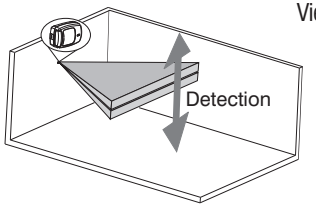
Note: EN 50131-2-2:2008 compliant at 1.5 m to 2.3 m mounting height.

Side View



WALL MOUNT CEILING/SKY LIGHT PROTECTION*

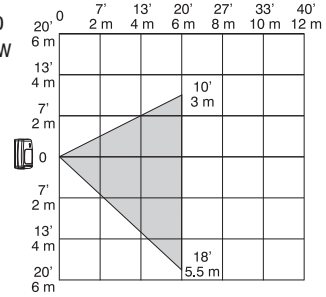
Ceiling protection, this is NOT a pet alley application.



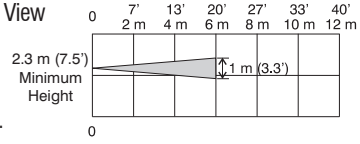
*Look-Down MUST be disabled -- Install Look-Down Mask (see Step 5).

Note: EN 50131-2-2:2008 compliant at a minimum mounting height of 2.3 m (7.5').

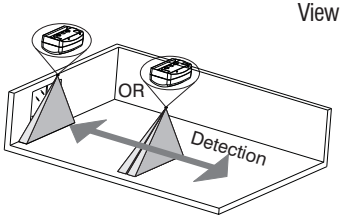
Top View



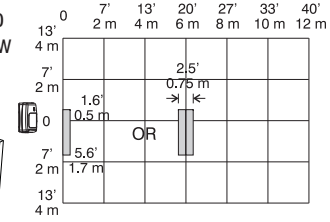
Side View



SIDEWAY ORIENTATION CEILING MOUNT*



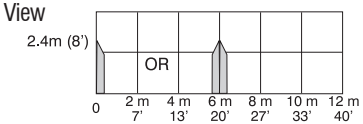
Top View



Note: EN 50131-2-2:2008 compliant at 2.4 m to 3.6 m mounting height.

Note: The distances in the illustrations do not represent maximum detection distances. A walk-test is required after mounting to ensure proper detection.

Side View



SPECIFICATIONS

Range: 10 m (33') in Vertical Wall Mount Orientation

Mounting Height:
Walls: Vertical - 1.5 m to 2.7 m (5' to 9'); Horizontal - 2.3 m (7.5') minimum
Ceiling: 2.4 m to 3.6 m (8' to 12')

Power requirements:
8.5 - 15.4 VDC (UL: 10-14 VDC); 16 mA nominal at 12 VDC, 18 mA max; AC Ripple: 50 to 120 Hz; 3 V peak-to-peak at nominal 12 VDC

Alarm relay: Form A (normally closed; 30 mA, 24 VDC max., 40 Ohms resistance max

Tamper switch: Form A (normally closed with cover installed); 30 mA, 24 VDC

RFI immunity: 30 V/m; 10 MHz - 1000 MHz

PIR White light immunity: 6,500 Lux (min.)

Sensitivity: Switch selectable (low & high)

Operating temperature: -10° C to +55° C (14° F to 131° F) (For indoor use environment)

Relative humidity: 5% to 95% non-condensing

Temperature Compensation: Advanced dual slope

PIR fields-of-view: dual element, 18 detection zones 4 look-down (when used)

Dimensions: 8.57 cm x 6.03 cm x 3.81 cm (3-3/8" H x 2-3/8" W x 1-1/2" D)

Weight: 66.62 g (2.35 oz) Packaged Product: 89.0 g (3.13 oz)

Accessories Included: Look-down mask

Accessories Available:
SMB-10 Swivel Mount Bracket (P/N 0-000-110-01)
SMB-10C Swivel Mount Ceiling Bracket (P/N 0-000-111-01)
SMB-10T Swivel Mount Bracket w/Tamper (P/N 0-000-155-01)

EN 50131-2-2:2008 Compliant Accessories:
SMB-10T Swivel Mount Bracket w/ Tamper (P/N 0-000-155-01)

Approvals/listings:
FCC part 15, Class B verified
IC, ICES-003, Class B verified
C-Tick, cULus listed, PD6662:2010, NF&A2P, EN 50131-2-2: 2008, Security Grade 2, Environmental Class II
Note: In EN50131-2-2:2008 compliant installations: mount the sensor at the appropriate mounting height for the installation (see notes in Detection Patterns section at left), select the high sensitivity setting (DIP switch 2 ON), enable the Look-Down mirror and install a cover screw (included).
Suitable for connection to an EN 60950 Class II Limited Power Source in European installations.

For any additional information, please refer to our Website, www.honeywell.com/security/emea/hscdownload or contact:

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Newhouse Industrial Estate
Motherwell
Lanarkshire ML1 5SB
United Kingdom

Tel: +44(0)1698 738200
Email: UK64Sales@Honeywell.com

www.honeywell.com/security

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.

FCC CLASS B 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:

- If using an indoor antenna, have a quality outdoor antenna installed.
- 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: ICES-003 Class B Notice - Avis NMB-003, Classe B

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 RSS 210 of IC. Operation is subject to the following two conditions: (1) This device may not cause harmful interference (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' interferences nuisibles. (2) Cet appareil doit accepter toute interference reçue y compris les interferences causant une reception indésirable.

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

Honeywell