

IS3016A-1 Passive Infrared Motion Sensor with Anti-Mask - Installation Instructions

QUICK LINKS

[Mounting Location Guidelines](#)

[Open the Sensor](#)

[Mount the Sensor](#)

[Sensor Components and Settings](#)

[Wire the Sensor](#)

[Wiring Examples](#)

[Walk Test the Sensor](#)

[Detection Patterns](#)

[Remote LED Enable](#)

[Relay Operation](#)

[Mask Condition](#)

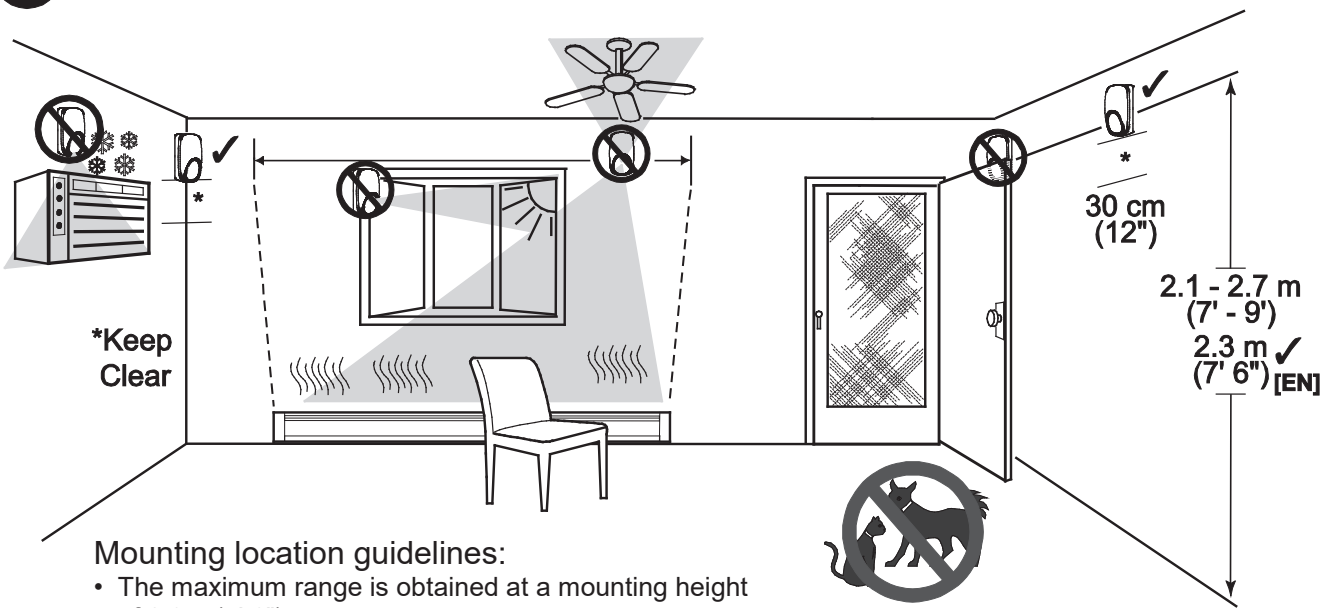
[Troubleshooting](#)

[Sensor Specifications](#)

[Accessories](#)

[Approval Listings](#)

1 SELECT THE MOUNTING LOCATION

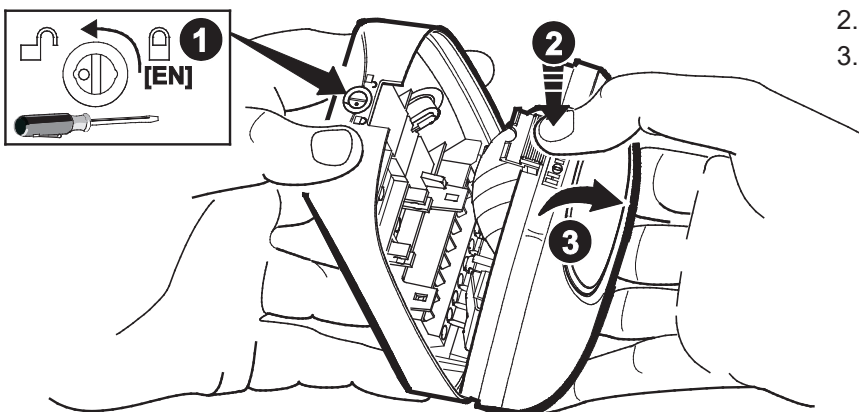


Mounting location guidelines:

- The maximum range is obtained at a mounting height of 2.3m (7' 6").
- Allow a clear line-of-sight to all areas to protect.
- Avoid mounting anything within 30cm (12") in front of the sensor.
- Do not directly face windows.
- Avoid close proximity to moving machinery, fluorescent lights, and heating/cooling sources.
- Not for use in applications with pets.

[EN] = approved installation.

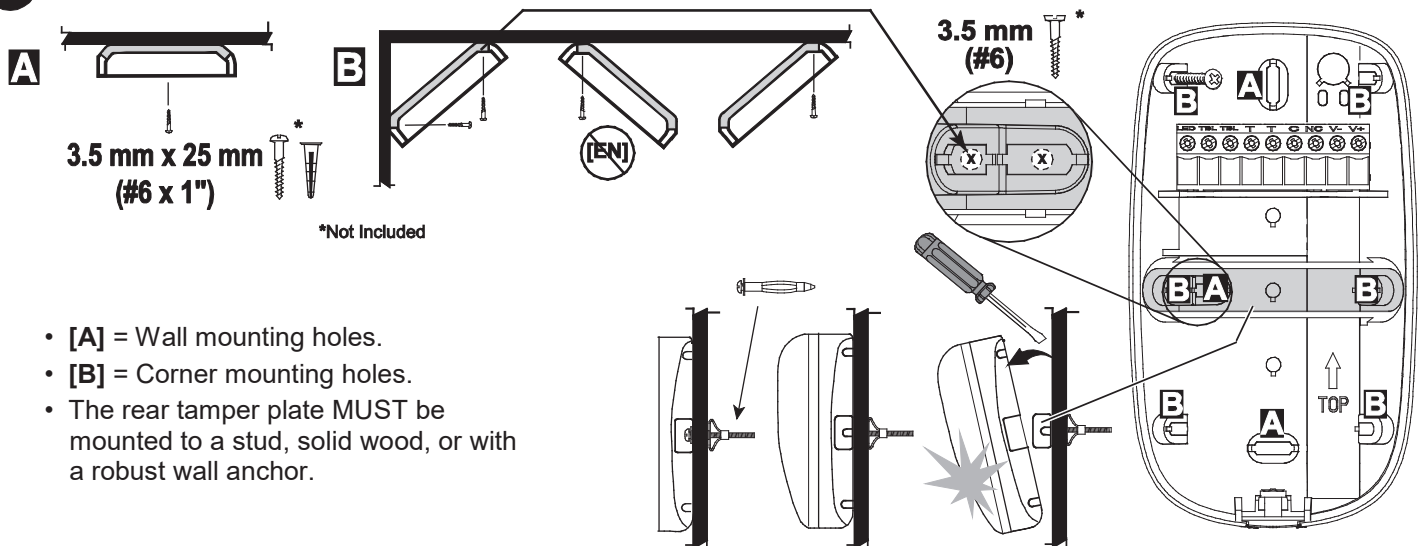
2 OPEN THE SENSOR



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

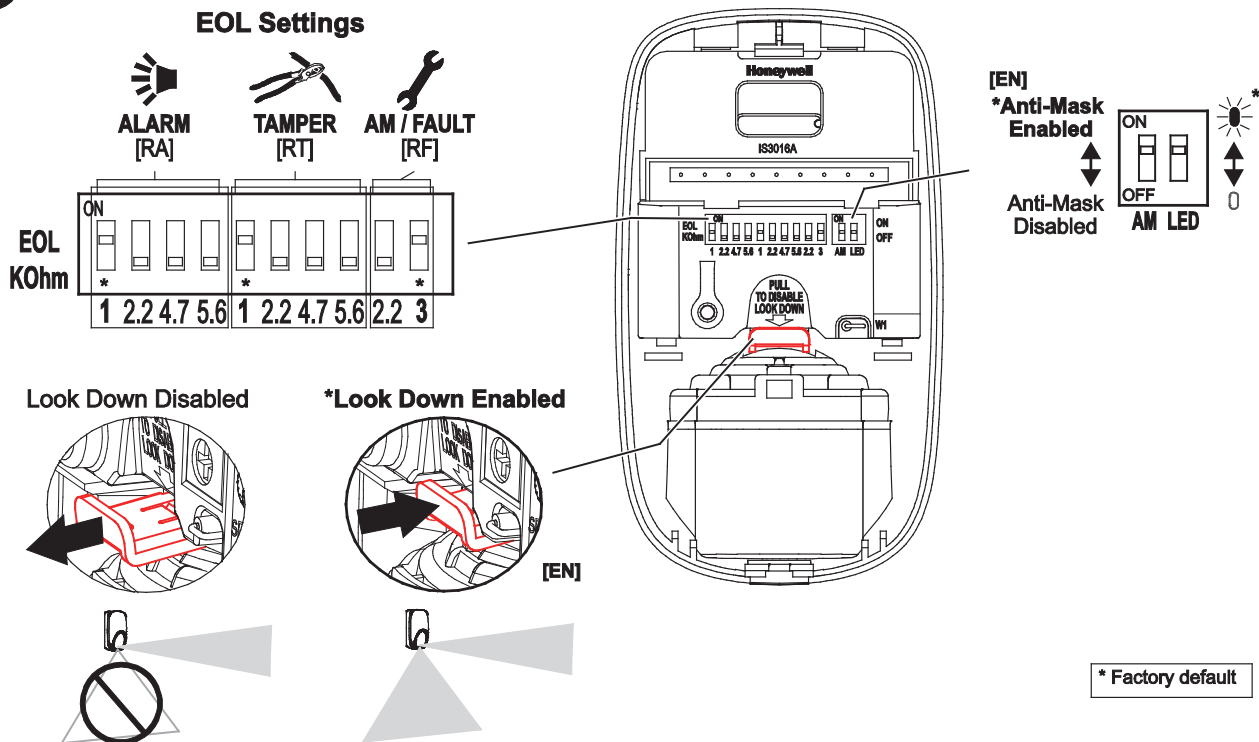


3 MOUNT THE SENSOR

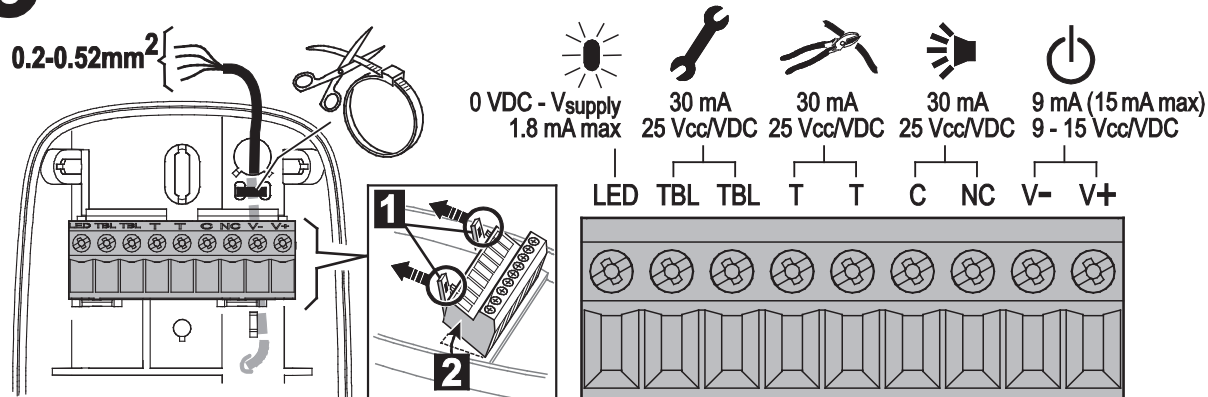


- [A] = Wall mounting holes.
- [B] = Corner mounting holes.
- The rear tamper plate **MUST** be mounted to a stud, solid wood, or with a robust wall anchor.

4 SENSOR COMPONENTS AND SETTINGS



5 WIRE THE SENSOR

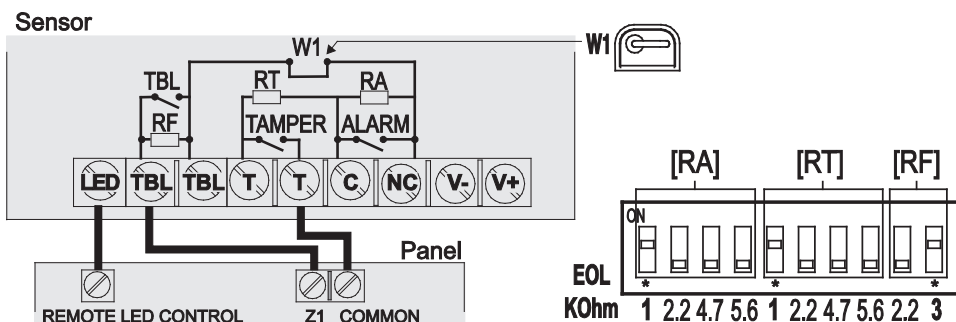


See wiring details and examples on [page 3](#).

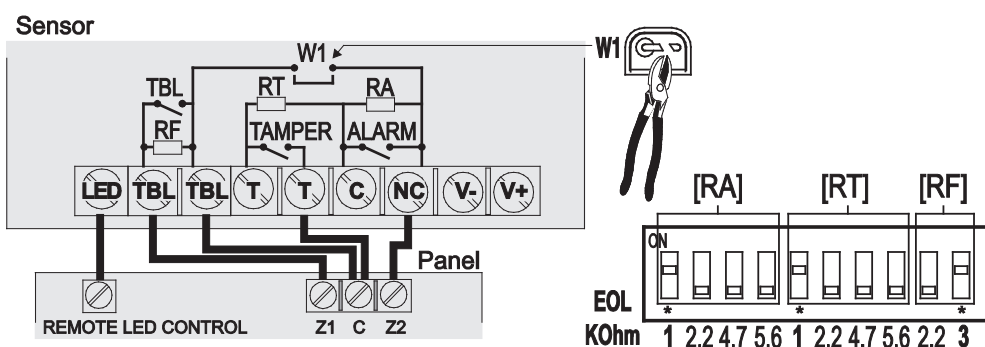
- Observe proper polarity.
- If not using the integrated EOL resistors, set all switches to OFF.
- If using the integrated EOL resistors:
 1. Connect the sensor to the panel (see wiring diagrams below).
 2. Set the appropriate tamper, alarm and Anti-mask/ [RF] DIP switches to ON (see [Step 4](#) on page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

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

Alarm, Tamper and Trouble/Anti-Mask configured to one loop.



Alarm, Tamper and Trouble/Anti-Mask configured to two loops.



RA = Alarm EOL resistor	RF = Anti-Mask EOL resistor
RT = Tamper EOL resistor	W1 = 1 and 2 loop connection resistor.

The diagram illustrates the 20-second safety timer. It shows a person walking through a doorway, a stopwatch set to 20 seconds, and a car with a sensor beam.

The diagram illustrates the AM LED indicator. It consists of a rectangular box labeled "AM LED" at the bottom. Inside the box, there are two vertical bars, one of which is labeled "ON". To the right of the box, there is a sun icon with rays, and an upward-pointing arrow is positioned below it, pointing towards the sun icon.

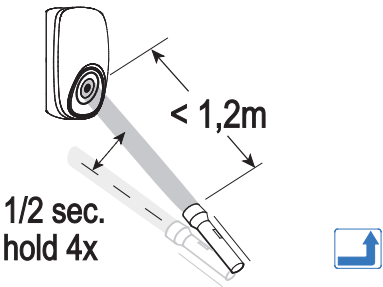
1. Close the sensor and apply power to the sensor. Initialization is complete when the LED stops flashing slowly (about 20 seconds).
2. Walk through the detection area and observe the LED.

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](#) (see the following page).

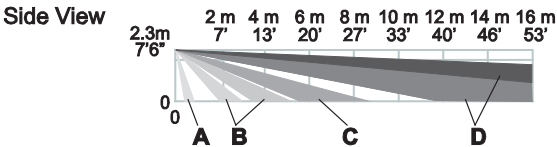
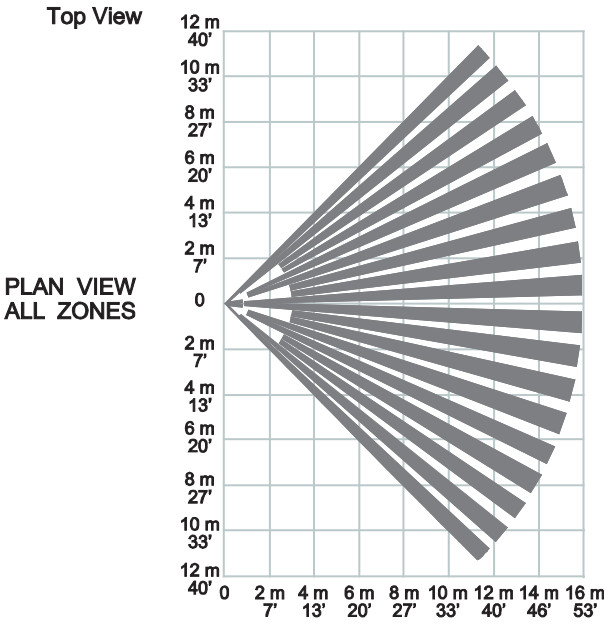
Note: During power up and walk test modes the LED is active regardless of the LED Enable/Disable DIP switch setting.

Flashlight Feature:

- 1. Use a flashlight with a bright light beam, and stand within 1.2 m (4') of the sensor.
 - 2. Swing past the lights beam across 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



Zones

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

REMOTE LED ENABLE (LED INPUT)

The LED input terminal allows the LED to be remotely enabled. To use this feature, the LED DIP switch (switch 2) must be OFF, allowing the LED to operate based on the voltage level connected to the LED Input (see [Wiring Details](#)).



Switch 2	LED Input	LED Operation
OFF	High (+12 V)	Enabled
OFF	Low (0 V)	Disabled
ON	Low (0 V) or High (+12 V)	Enabled

RELAY OPERATION

	SENSOR STATUS			
	Normal	Intrusion	Trouble ¹	Mask ²
Alarm Relay	Closed	Open	Closed	Open
Trouble Relay ³	Closed	Closed	Open	Open

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

² In a Mask condition, the Alarm and Trouble relays will activate simultaneously, and remain open until the condition has been cleared.

³ In a Trouble condition, the Trouble relay will latch open until the Trouble condition has been cleared.

MASK CONDITION

Normal Anti-Mask Condition

The sensor uses Active Infrared (AIR) technology to detect masking. The sensor signals a mask condition when a variety of materials and reflective objects are placed within 50mm (2 inches) in front of the sensor. To avoid false mask alarms, follow the mounting guidelines shown in [Step 1](#).

Clearing an Anti-Mask Condition

When most masking materials or objects are removed, the anti-mask condition will be cleared after several seconds. When the cause of the anti-mask condition is any type of spray or paint coating applied to the window, the window must be replaced before the anti-mask condition can be cleared. After replacing the window, perform a [walk test](#) on the sensor.

TROUBLESHOOTING

	NORMAL	TROUBLE*		
		Mask ¹	Low Voltage ²	Self-Test Failure ³
Alarm Relay	Closed	Open	Closed	Closed
Trouble Relay	Closed	Open	Open	Open
Red LED	Off	Off	Flashing	Flashing
Yellow LED	Off	Flashing	Off	Off

*TROUBLE CONDITIONS:

¹ Mask condition: Sensor IR window is blocked or masked.

² Low Voltage: The sensor is disabled.

³ Self-Test Failure conditions:

- 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 sensor is not blocked or masked.
- 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; 10 mA typical, 15 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 & Wall; (NC with cover installed) Form A;
30 mA, 25 VDC; Magnetic field

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: 11.86 cm H x 6.73 cm W x 4.64 cm D

Weight: 127.4g (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



EN50131-2-2, Security Grade 3,
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,
do not use only the right side corner mounting holes, enable look down
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 3 boucliers (référentiel
NF324-H58) et conforme aux normes
EN50131-2-4 et RTC50131-2-4
IP30 IK04

N° de certificat: XXXXXXXXXX

Organisme de certification:

CNPP Cert.: www.cnpp.com et

AFNOR Cert.: www.marque-nf.com



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For any additional information, please refer to our Website:
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