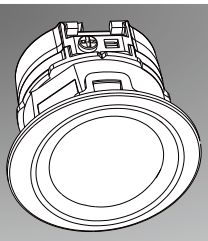
No.59-3222-0 2207-04

INSTALLATION INSTRUCTIONS

EN



Indoor Recessed Mount PIR Detector

AP-360BR(C)

360°/Battery operated model

360° ø6.0 m (20’) detection area *at 4.5 m (14’ 9”) mounting height*

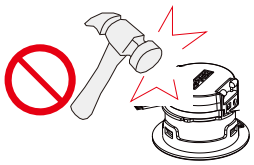
<< Contents >>

- Manufacturer' s statement

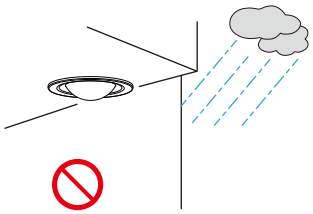
Symbol	Meaning
Warning	Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.
Caution	Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.

Symbol	Meaning
✓	Check mark indicates recommendation.
⊘	Nix sign indicates prohibition.
NOTE	Special attention is required to the section of this symbol.

Warning

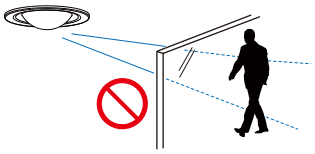


Destroy
modify

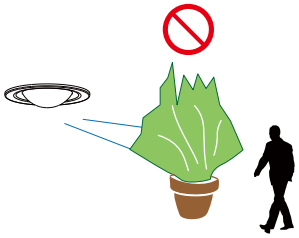


Outdoor installation

Wetting with water

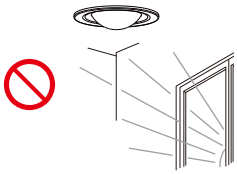


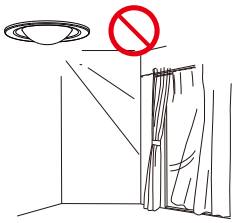
Detection through glass

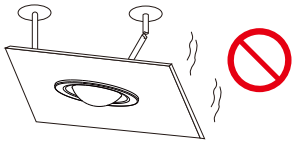


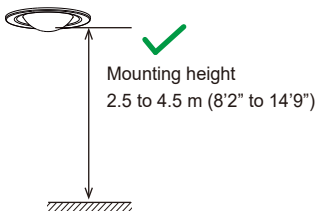
Partial/complete obscuration
of the detection area.

Caution





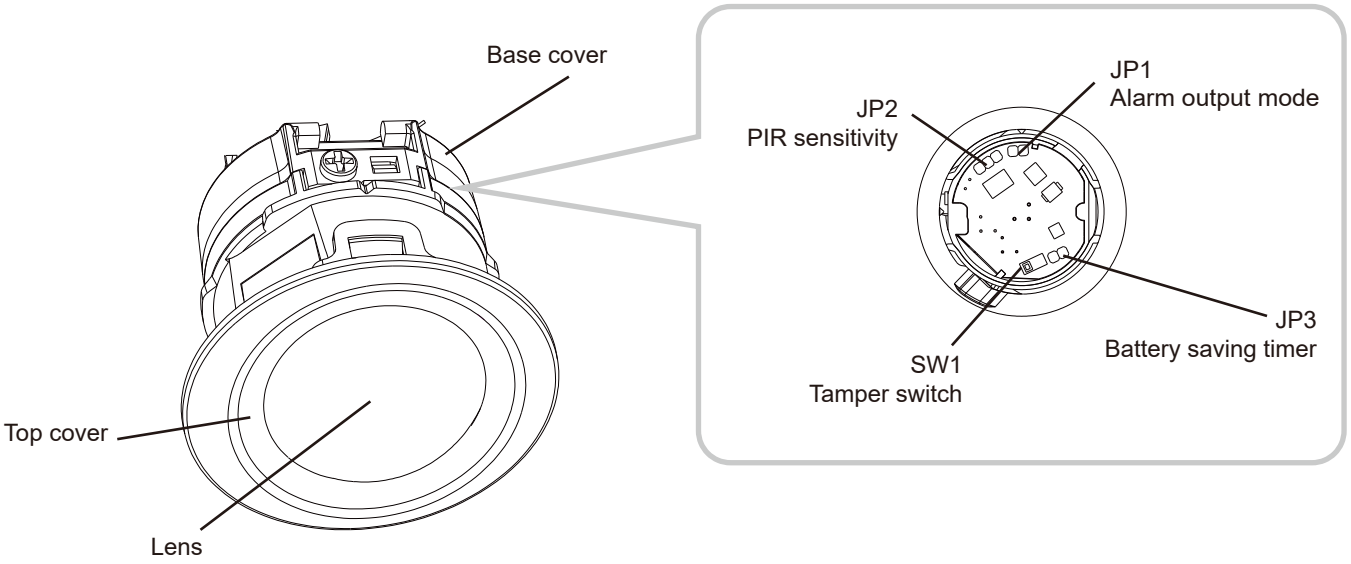


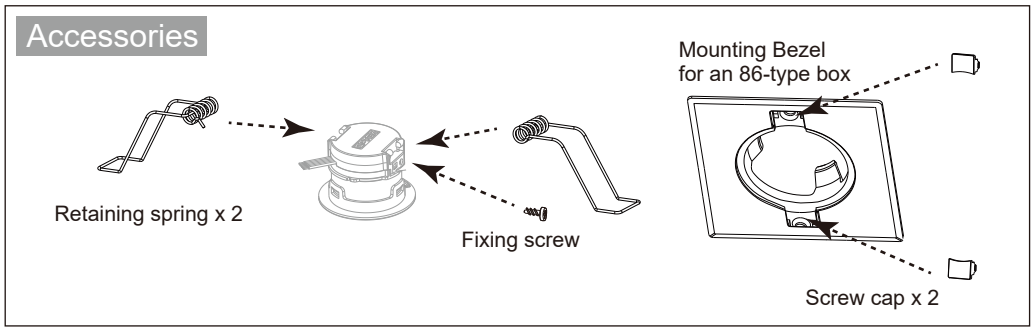


Mounting height
2.5 to 4.5 m (8'2" to 14'9")

Follow to the Regulations

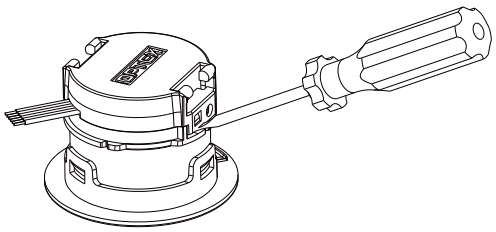
- Parts identifications





1 Settings

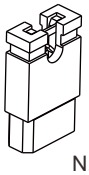
1 Disassemble



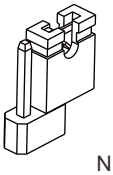
Open the base cover, and to set the detector.

2 Jumper pin settings

JP1
Alarm output mode

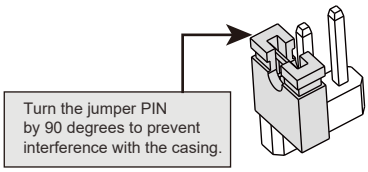


N.C. (default)

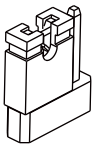


N.O.

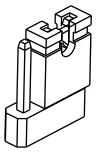
JP2
PIR sensitivity



H (recommended)
Mounting height: > 3.5 m (11'6")

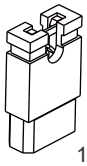


M (default)
3.0 to 3.5 m (9'10" to 11'6")

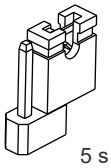


L
< 3.0 m (9'10")

JP3
Battery saving timer

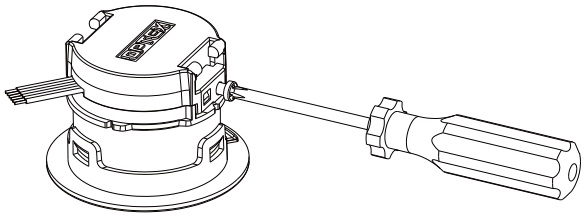


120 s (default)



5 s

3 Assemble

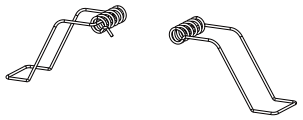


Close the base cover, and fasten the screw to fix the cover.

2 Installation

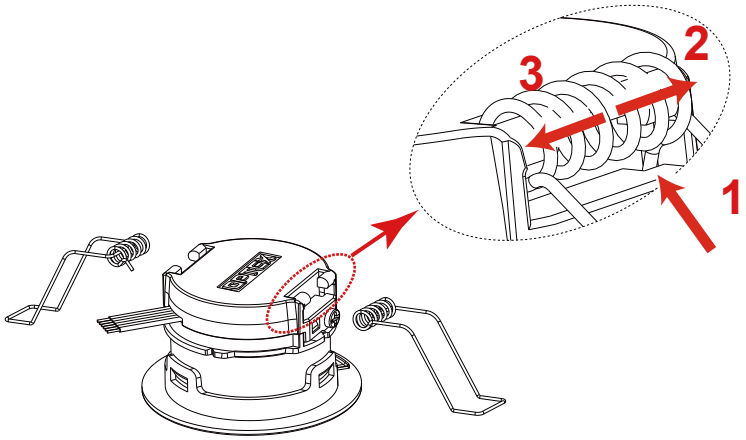
2-1. Ceiling mount *without switch box*

Accessories
used in this installation

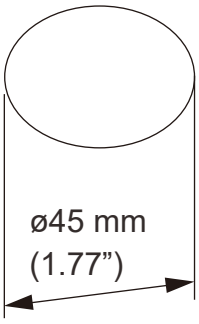


Retaining spring x 2

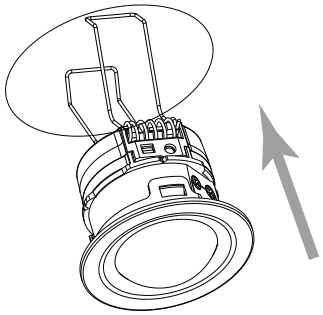
1 Install a retaining spring on both sides.
(follow the illustrated arrow steps to complete the assembly of the retaining spring.)



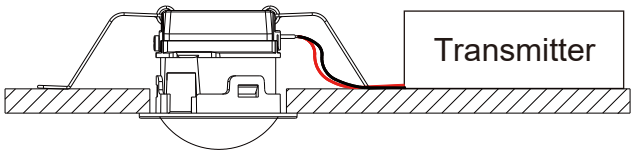
2 Make a ø45 mm (1.77”) hole in the ceiling for mounting.



3 Insert the detector into the hole with the retaining spring facing up.



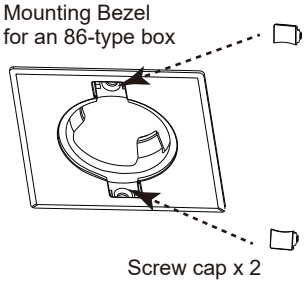
4 Mount the detector on the ceiling.
(Be sure to arrange the wires with a downward slope to prevent water igress into the detector.)



2-2. Ceiling mount *with 86-type box*

Accessories
used in this installation

Mounting Bezel
for an 86-type box

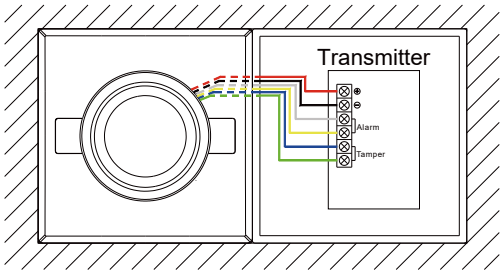


Screw cap x 2

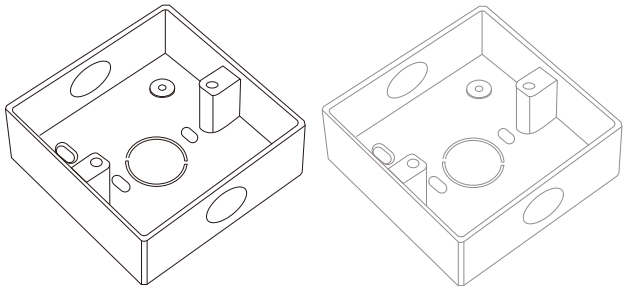
Options
to procure in the market

86-type box x 1 or 2
Screw x 2

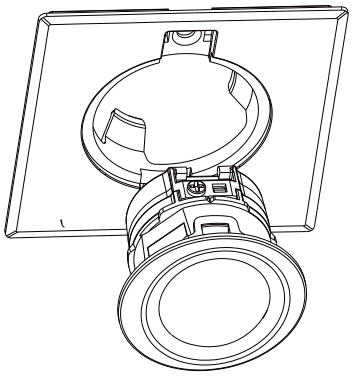
NOTE For the 86-type box mount, dual 86-type boxes are recommended with the additional one used to accommodate the transmitter.



1 Prepare an 86-type box on the ceiling.

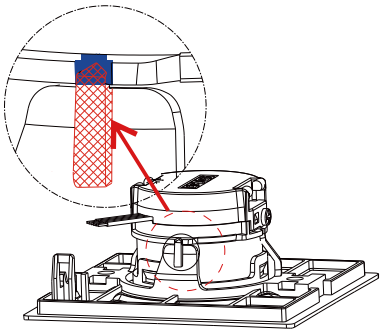


2 Install the detector into the 86-type box.

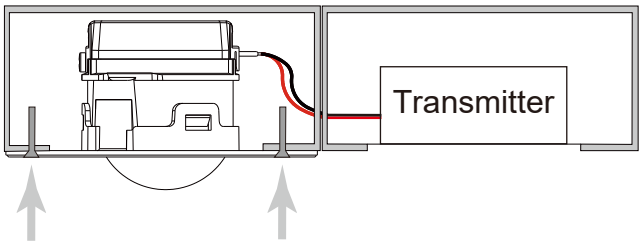


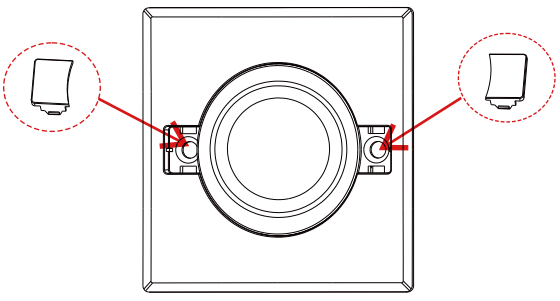
NOTE

Align the bump with the triangle recess as illustrated in the figure.

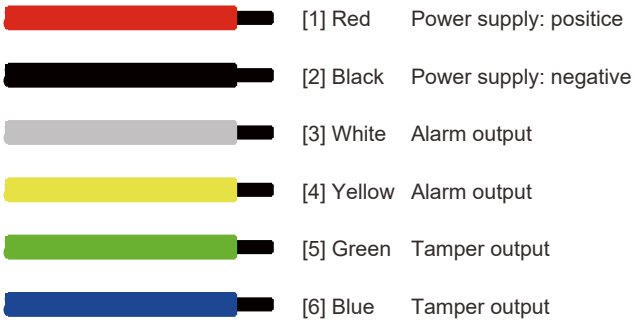


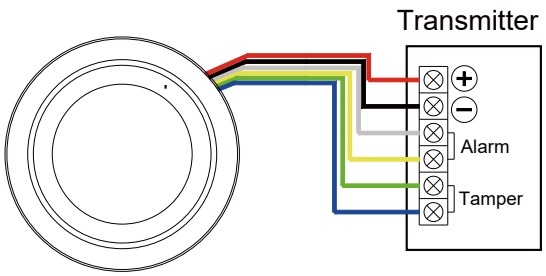
3 Fix the detector with two screws and cover their heads with two caps.





2-3. Wiring

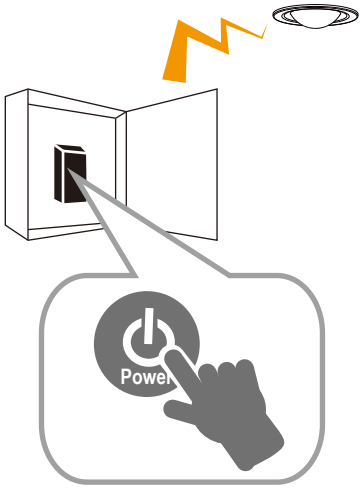

[1] Red Power supply: positice
[2] Black Power supply: negative
[3] White Alarm output
[4] Yellow Alarm output
[5] Green Tamper output
[6] Blue Tamper output


Transmitter
Alarm
Tamper

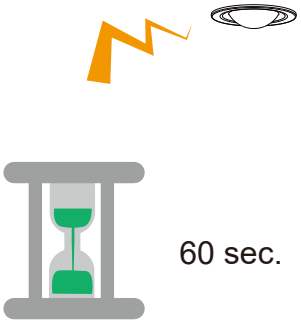
3 Checking

3-1. Walk test

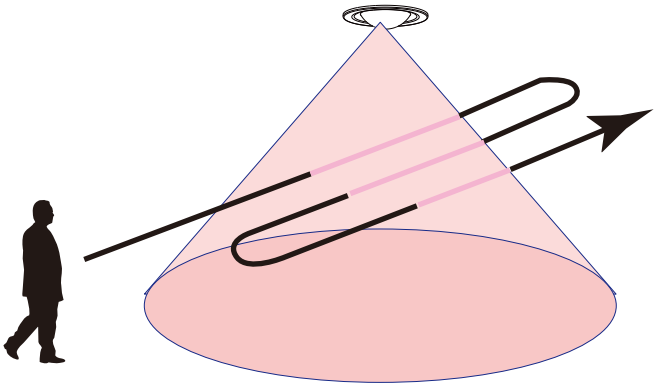
1 Power on.



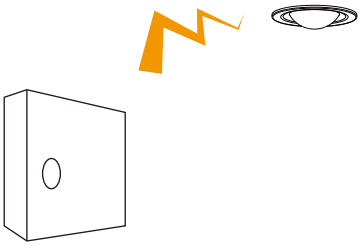
2 Wait for 60 seconds to complete the warm-up time.



3 Walk in the detection area to check the detecting performance.



4 Start operation.



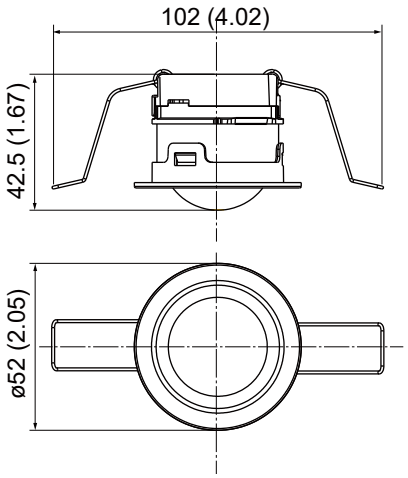
- Specifications

Model	AP-360BR(C)
Detection method	Passive infrared
Detection area	ø6 m (ø20' at mounting height: 4.5 m (14'9" ft.)
Mounting height	2.5 to 4.5 m (8'2" ft. to 14'9" ft.)
Mounting mode	Recessed ceiling mount/86-type box mount
Sensitivity	2.0℃ at 0.6 m/s (3.6°F at 2'/s)
Detection speed	0.3 to 3.0 m/s (1'/s to 9'10"/s)
LED indicator	Warm-up upon power on: blinking Stand-by: off Walk test: solid on Alarm: off
Alarm cycle	Approx. 2 s
Battery saving timer	120 s/ 5 s selectable
Alarm output	N.O./N.C., 3.6 V DC 10 mA max.
Tamper switch	N.C. 28 V DC 100 mA max. The contact opens once the casing is detached.
Warm-up time	Approx. 60 s
Power supply	2.7 to 3.6 V DC (CR123A battery)
Current	3 V DC Stand-by: 10μA, Max.: 4 mA
PIR sensitivity	H/ M/ L
Weight	50 g (1.76 oz)
Operation temprature	-20 to +50℃ (-4°F to +122°F)
Operation humidity	< 95%
Location	Indoors
Dimensions	ø52 x 42.5 mm (ø2.05 in. x 1.67 in.): without switch box mount
	86 x 86 x 42.5 mm (3.39 x 3.39 x 1.67 in.): with 86-type box mount

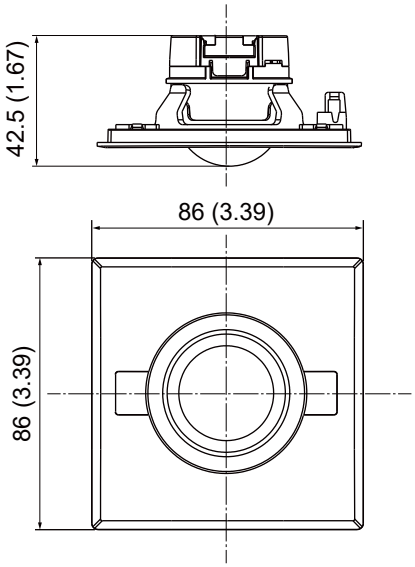
- Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

- Dimensions

Without switch box mount



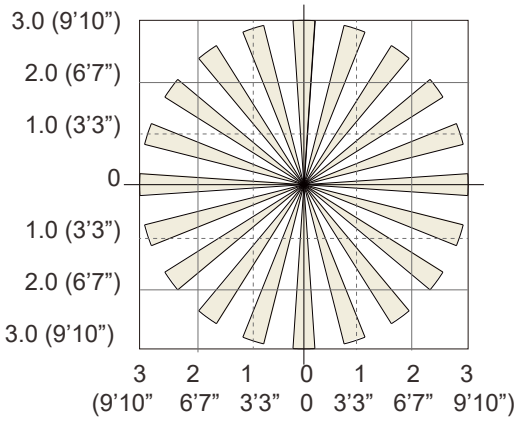
With 86-type box mount



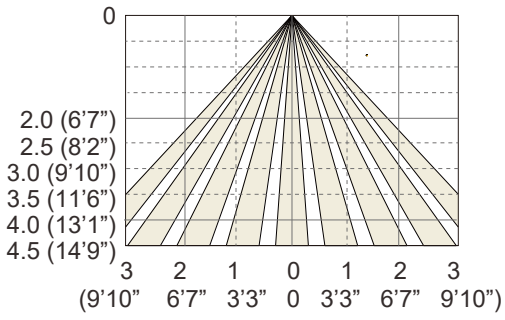
Unit: mm (inch)

- Detection area

Top view



Side view

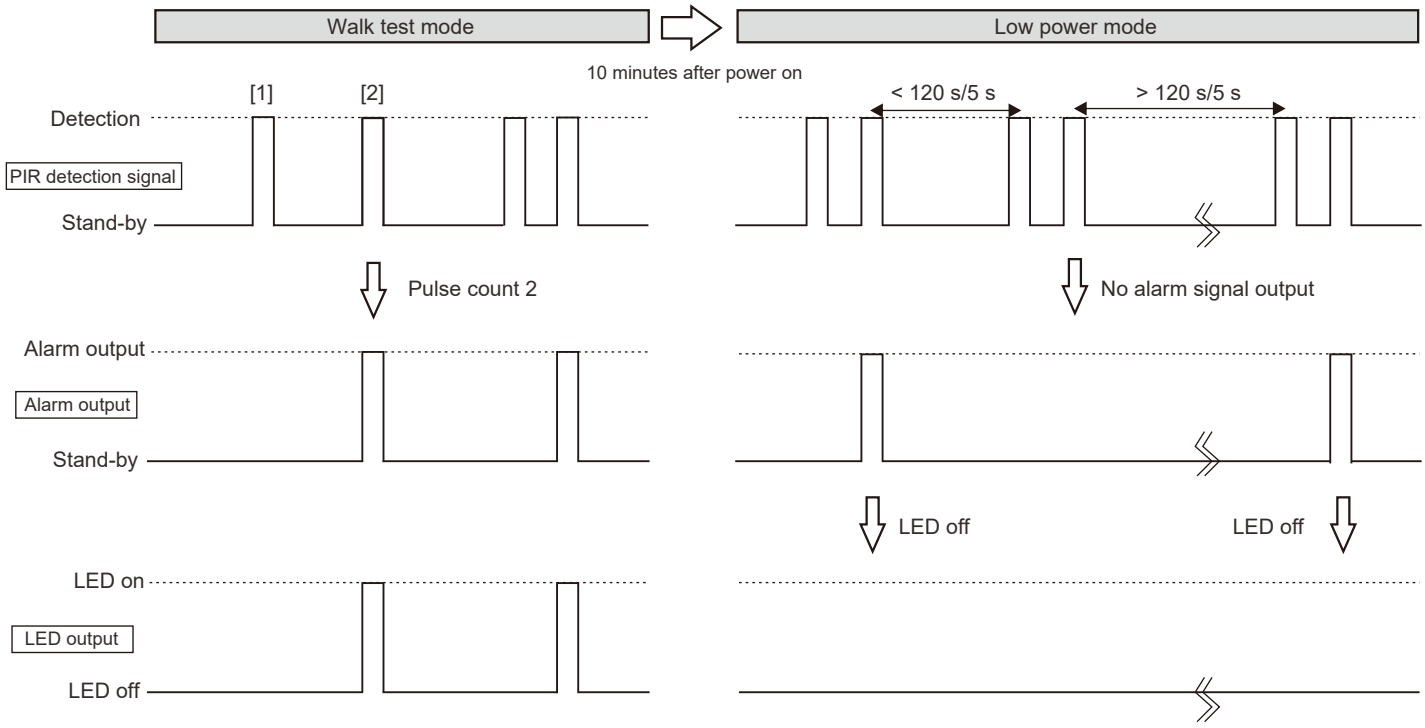


Maximum detection area

Mounting height	2.5 (8' 2')	3.0 (9' 10")	3.5 (11' 6")	4.0 (13' 1")	4.5 (14' 9")
Detection area	ø3.3 (ø10' 10")	ø4.0 (ø13' 1")	ø4.6 (ø15' 1")	ø5.4 (ø17' 8")	ø6.0 (ø20')

Unit: m (ft., in.)

- Timing chart



- Troubleshooting

Problem	Cause	Solution
The LED is off.	The power supply voltage does not meet the requirement due to disconnection from the power supply or low voltage.	Check the power supply of the detector. Refer to “Specifications” on the page 9 for the power supply voltage.
	Incorrect detection area.	Adjust the detection area. Refer to “Detection area” on the page 10.
	The detector is in low power mode.	Power on the detector again if an additional walk test is needed.
The LED is on even there is no person in the detection area.	A moving object exsts in the detection area, such as a fluttering curtain or a swinging wall-mounted pendant.	Remove the moving object from the detection area or change the detector location.
	The temperature changes rapidly in the detection area due to a heat source, such as a radiator or air conditioner.	Remove the heat source fron the detection area or change the detector location.
The LED is on but the detector does not transmit signals.	Relay contact abhesion or damage occurs due to overload.	Check the output load. Repair or replace the damaged part.
	Improper wiring.	Connect the wires for the detector correctly.
The detector fails to warm up in 60 seconds after power on and the LED blinks continuously.	A moving object exista in the detection area during the warm-up period of the detector.	Be sure that there is no moving object in the detection area during the warm-up period of the detector.
	The detector fails to work properly.	Repair or replace the detector.

- Compliance

■ **EU & UK contact information**

https://navi.optex.net/cert/contact/

OPTEX CO., LTD. (JAPAN)
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