

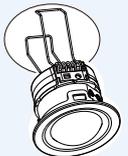
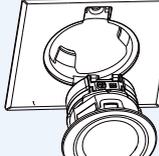
Indoor Recessed Mount PIR Detector

AP-360B(C)

360°/Wired model

360° ø6.0 m (20') detection area at 4.5 m (14' 9") mounting height

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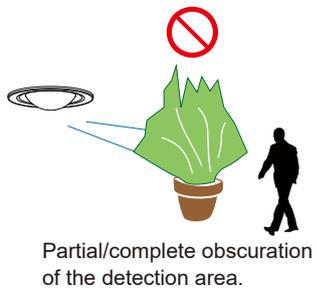
Before installation

- Manufacturer's statement

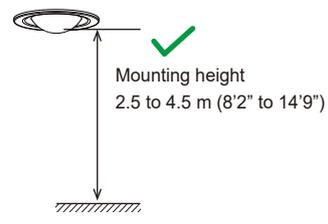
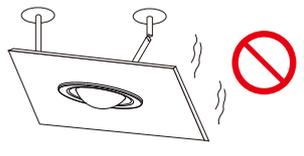
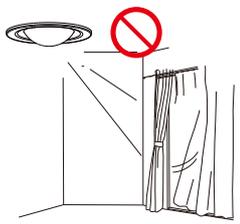
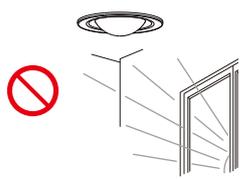
Symbol	Meaning
 Warning	Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.
 Caution	Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.

Symbol	Meaning
	Check mark indicates recommendation.
	No sign indicates prohibition.
NOTE	Special attention is required to the section of this symbol.

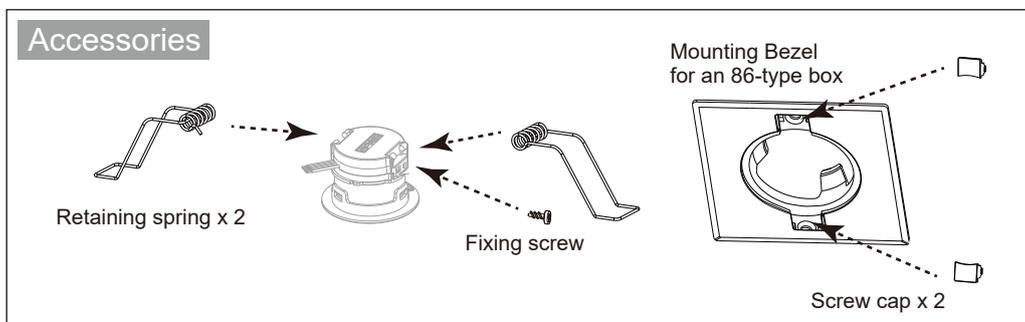
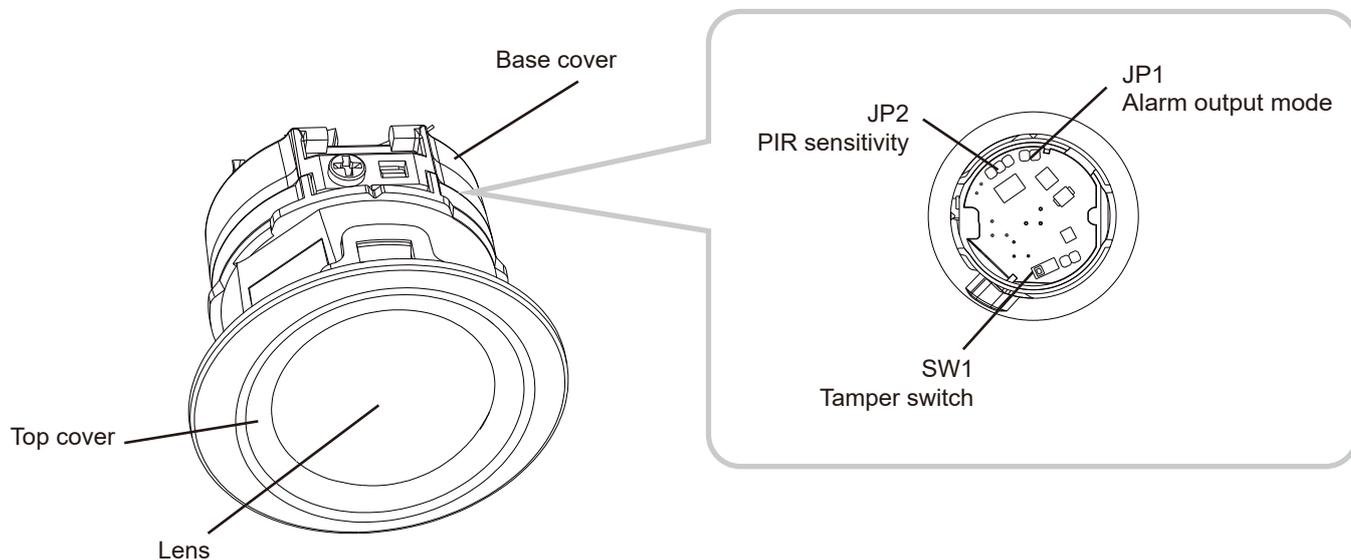
 **Warning**



 **Caution**

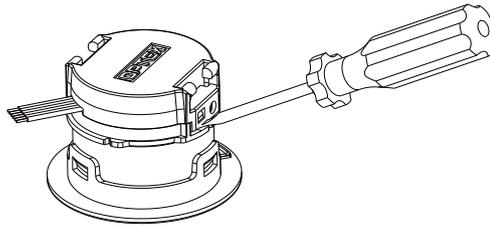


- Parts identifications



1 Settings

1 Disassemble

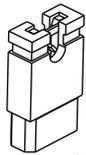


Open the base cover, and to set the detector.

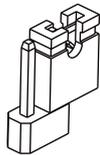
2 Jumper pin settings

JP1

Alarm output mode



N.C. (default)

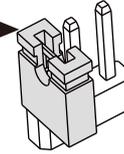


N.O.

JP2

PIR sensitivity

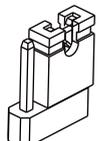
Turn the jumper PIN by 90 degrees to prevent interference with the casing.



H (recommended)



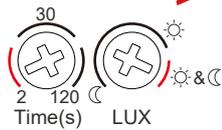
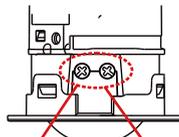
M (default)



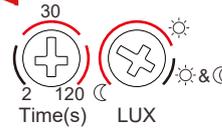
L
< 3.0 m
(9'10")

Mounting height: > 3.5 m (11'6")
3.0 to 3.5 m (9'10" to 11'6")

3 Light control mode settings

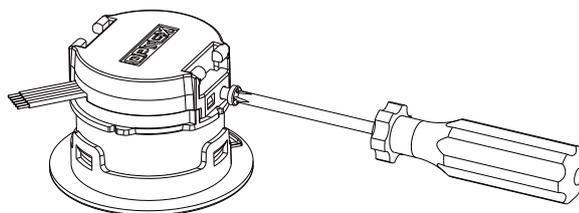


Security mode (default)



Light control mode

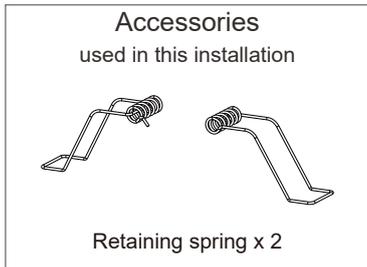
4 Assemble



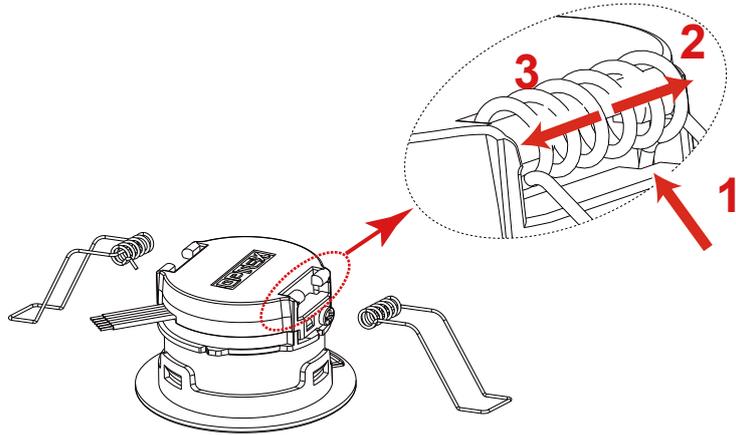
Close the base cover, and fasten the screw to fix the cover.

2 Installation

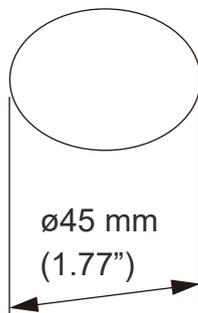
2-1. Ceiling mount *without switch box*



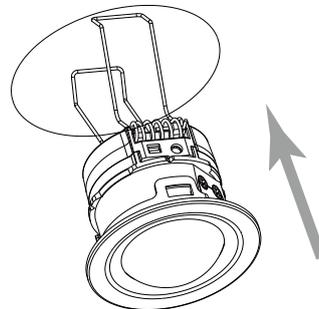
- 1 Install a retaining spring on both sides.
(follow the illustrated arrow steps to complete the assembly of the retaining spring.)



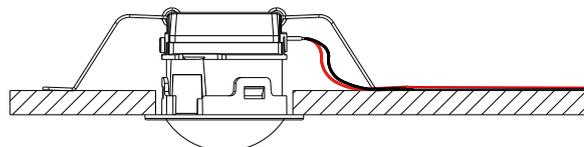
- 2 Make a $\varnothing 45$ mm (1.77") hole in the ceiling for mounting.



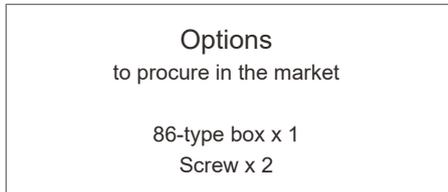
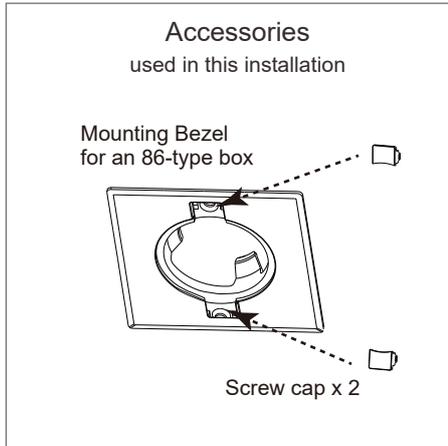
- 3 Insert the detector into the hole with the retaining spring facing up.



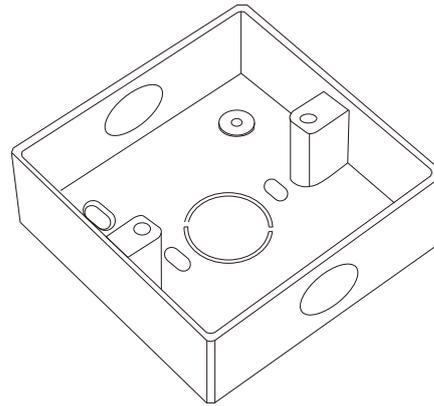
- 4 Mount the detector on the ceiling.
(Be sure to arrange the wires with a downward slope to prevent water ingress into the detector.)



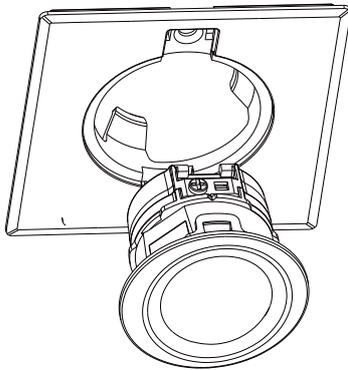
2-2. Ceiling mount *with 86-type box*



- 1 Prepare an 86-type box on the ceiling.

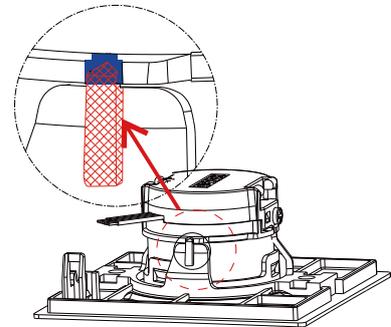


- 2 Install the detector into the 86-type box.

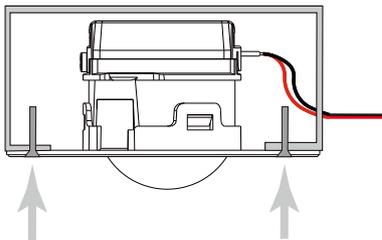


NOTE

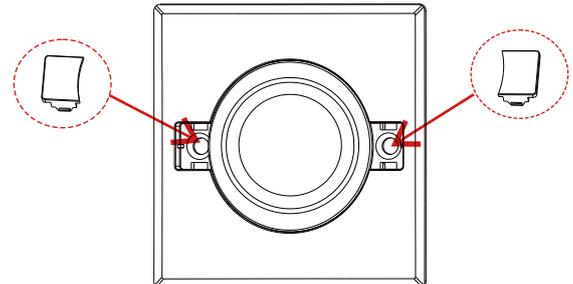
Align the bump with the triangle recess as illustrated in the figure.



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



NOTE Be sure to arrange the wires with a downward slope to prevent water ingress into the detector.



2-3. Wiring

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

Power cable length

The power cable should be limited to the following length.

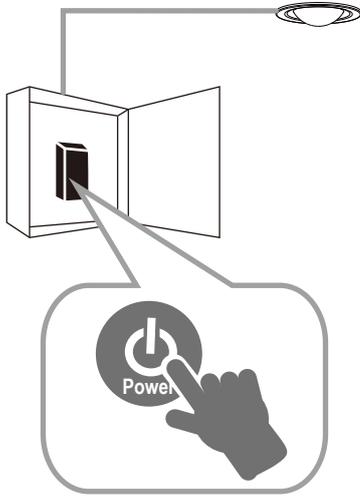
AP-360B(C)

WIRE GAUGE	12 V DC	14 V DC
AWG 22 (0.33 mm ²)	520 m (1,710 ft.)	1,130 m (3,718 ft.)
AWG 20 (0.52 mm ²)	820 m (2,690 ft.)	1,790 m (5,870 ft.)
AWG 18 (0.83 mm ²)	1,320 m (4,330 ft.)	2,850 m (9,350 ft.)

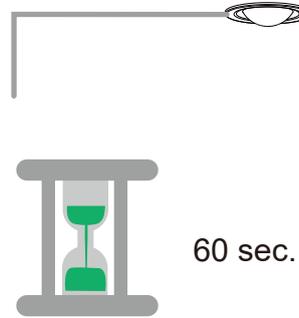
3 Checking

3-1. Walk test

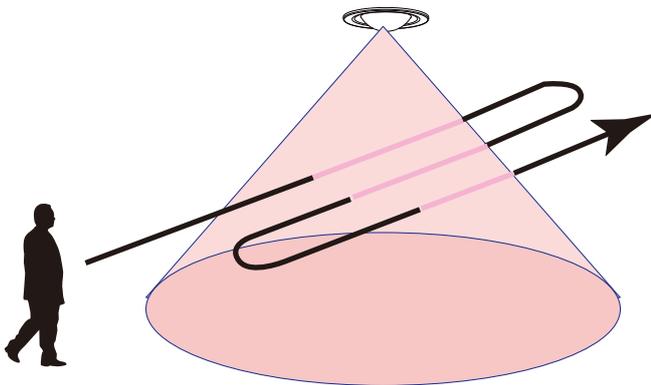
1 Power on.



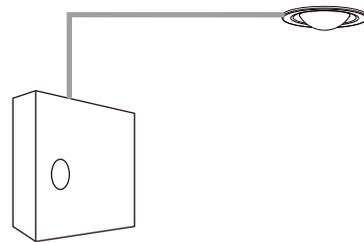
2 Wait for 60 seconds to complete the warm-up time.



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



4 Start operation.



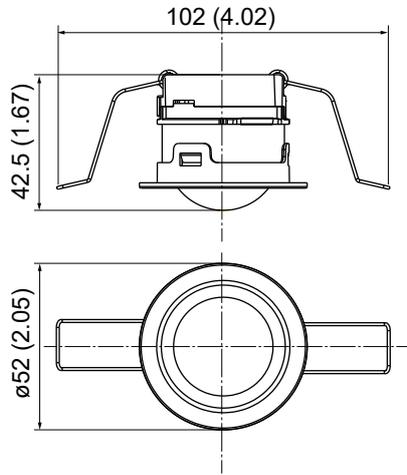
- Specifications

Model	AP-360B(C)
Detection method	Passive infrared
Detection area	ø6 m (ø20') at mounting height 4.5 m (14'9")
Mounting height	2.5 to 4.5 m (8'2" to 14'9")
Mounting type	Recessed ceiling mount/86-type box mount
Sensitivity	2.0°C 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 Alarm: solid on
Alarm cycle	2 s to 120 s (variable)
Illuminance	20 to 320 lux (variable/not detected)
Alarm output	N.O./N.C., 28 V DC 200 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	9.5 to 16 V DC
Current	12 V DC Stand-by: 11mA, Max.: 13 mA
PIR sensitivity	H/ M/ L
Weight	50 g (1.76 oz)
Operation temperature	-20 to +50°C (-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

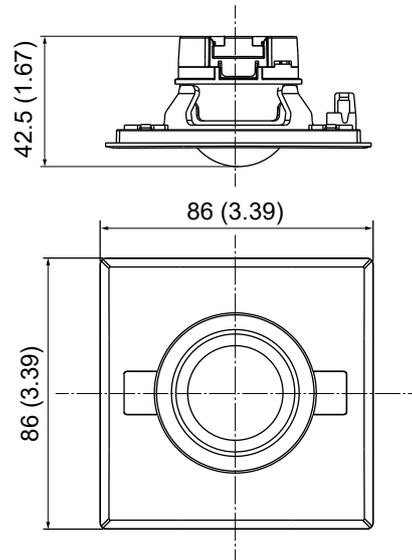
- Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

- Dimensions

Without switch box mount



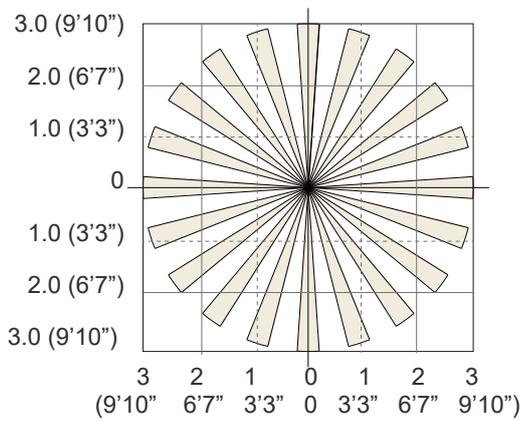
With 86-type box mount



Unit: mm (inch)

- Detection area

Top view

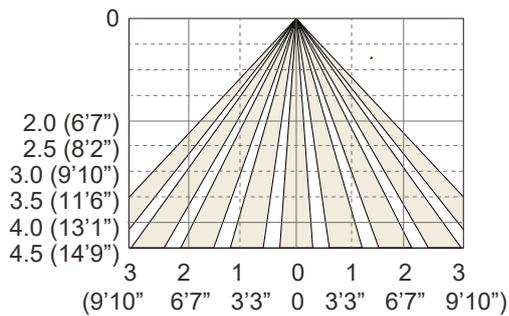


Maximum detection area

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.)

Side view



- 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 LED is on even there is no person in the detection area.	A moving object exists 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 from the detection area or change the detector location.
The LED is on but the detector does not transmit signals.	Relay contact adhesion 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 exists 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/>



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