

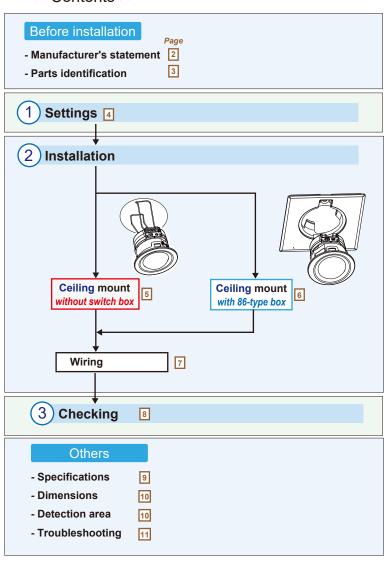
INSTALLATION INSTRUCTIONS





 $360^{\circ}~\text{Ø}6.0~\text{m}~\text{(20')}$ detection area at 4.5 m (14' 9") mounting height

<< Contents >>



Before installation

- Manufacturer's statement

Symbol Meaning

Marning Fall

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.



NOTE

Nix sign indicates prohibition.

Special attention is required to the section of this symbol.

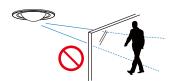
↑ Warning











Detection through glass



Partial/complete obscuration of the detection area.

⚠ Caution







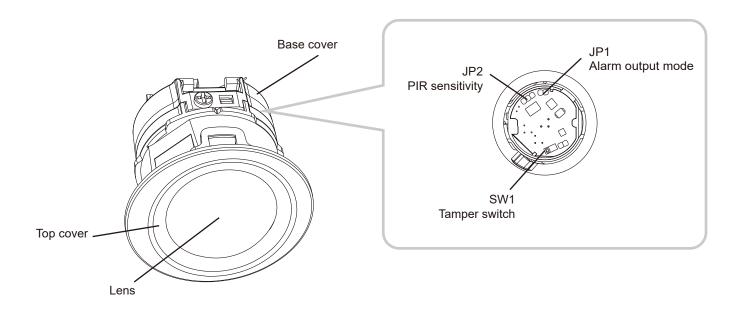


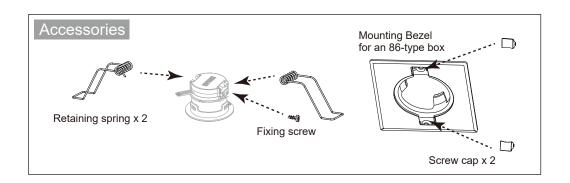




Follow environmental regulations

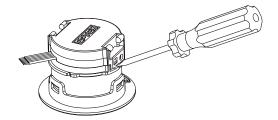
- Parts identifications





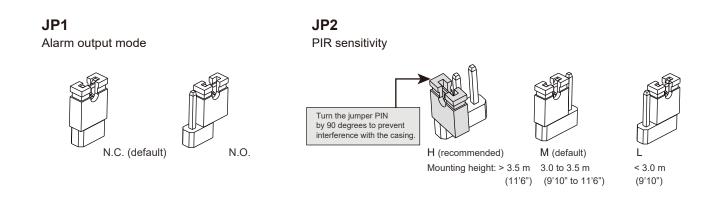
1 Settings

1 Disassemble

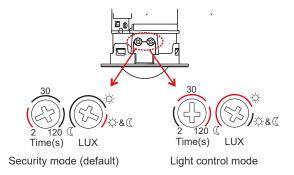


Open the base cover for setting of the detector.

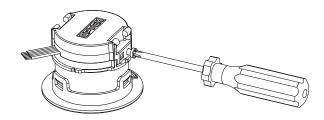
2 Jumper pin settings



3 Light control mode settings



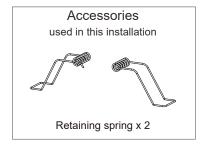
4 Assemble



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

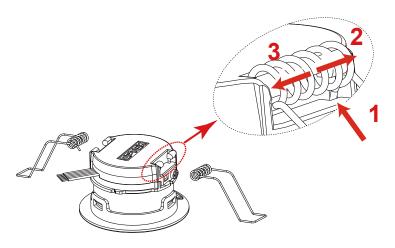
2 Installation

2-1. Ceiling mount without switch box

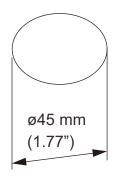


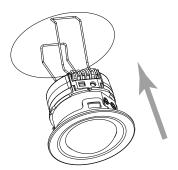
Install a retaining spring on both sides.

(follow the illustrated arrow steps to complete the assembly of the retaining spring.)



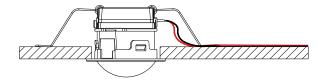
- 2 Make a ø45 mm (1.77") hole in the ceiling for mounting.
- 3 Insert the detector into the hole with the retaining spring facing up.

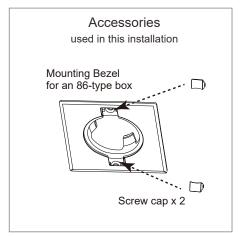




Mount the detector on the ceiling.

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

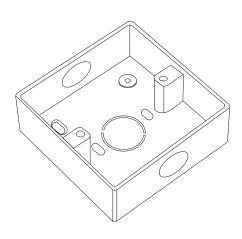




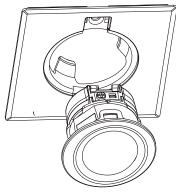
Options
to procure in the market

86-type box x 1
Screw x 2

1 Prepare an 86-type box on the ceiling.

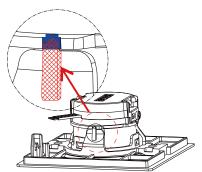


2 Install the detector into the 86-type box.

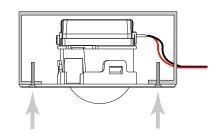


NOTE

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

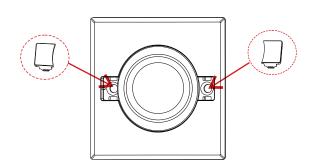


3 Fix the detector with two screws and cover their heads with two caps.



NOTE

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



2-3. Wiring



Power cable length

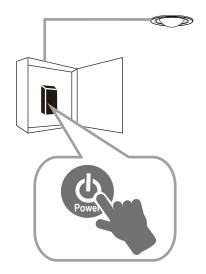
The power cable should be limited to the following length. AP-360B(C)

WIRE GAUGE	12 V DC	14 V DC	
AWG 22	440 m	950 m	
(0.33 mm ²)	(1,440 ft.)	(3, 110 ft.)	
AWG 20	690 m	1,510 m	
(0.52 mm ²)	(2,260 ft.)	(4,950 ft.)	
AWG 18	1,110 m	2,410 m	
(0.83 mm^2)	(3,640 ft.)	(7,900 ft.)	

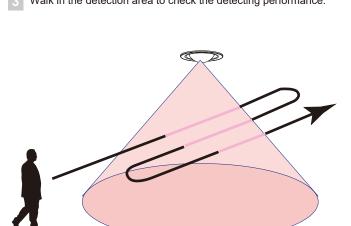
3 Checking

3-1. Walk test

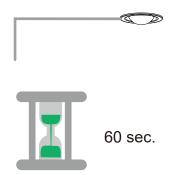
1 Power on.



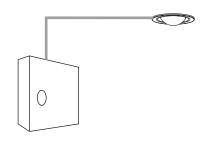
3 Walk in the detection area to check the detecting performance.



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



4 Start operation.



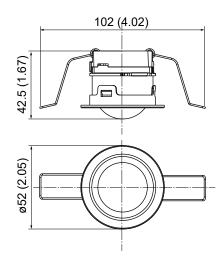
- Specifications

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)			
Operating temperature	-20 to +50°C (-4°F to +122°F)			
Operating 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			

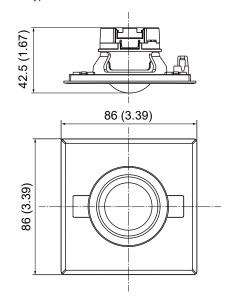
- Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

- Dimensions

Without switch box mount



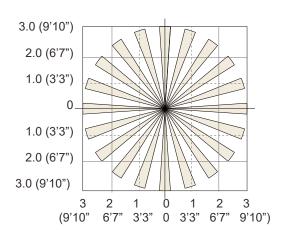
With 86-type box mount



Unit: mm (inch)

- Detection area

Top view

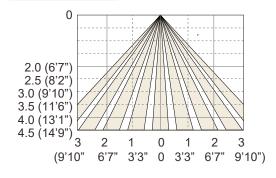


Maximum detection area

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

Unit: m (ft., in.)

Side view



- Troubleshooting

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





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



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