

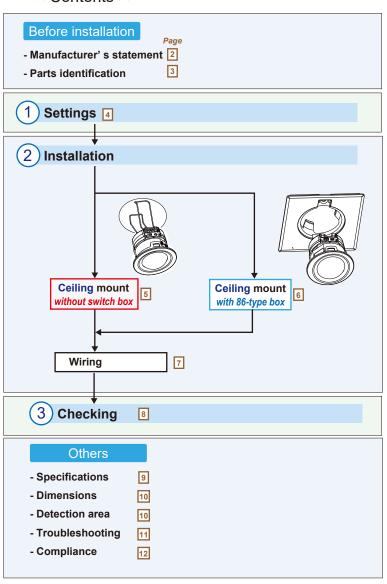
# INSTALLATION INSTRUCTIONS





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

### << Contents >>



### Before installation

## - Manufacturer's statement

Symbol Meaning

**⚠** 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.



NOTE

Nix sign indicates prohibition.

Special attention is required to the section of this symbol.

**⚠** Warning

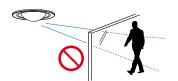


Destroy modify





Wetting with water



Detection through glass



Partial/complete obscuration of the detection area.











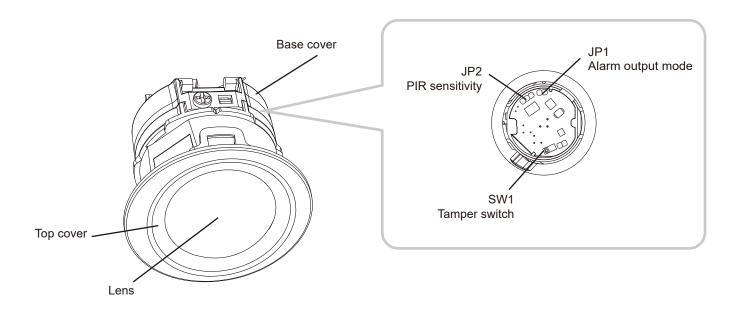


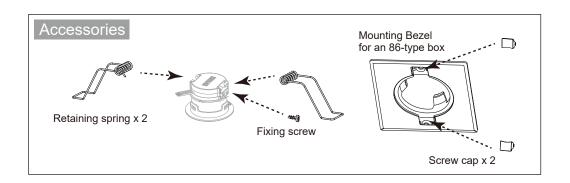




Follow to the Regulations

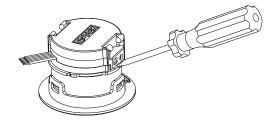
## - Parts identifications





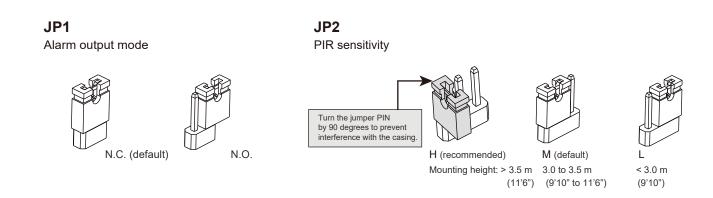
# 1 Settings

## 1 Disassemble

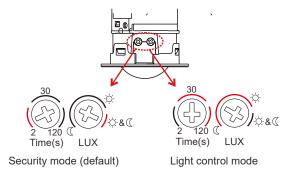


Open the base cover, and to set the detector.

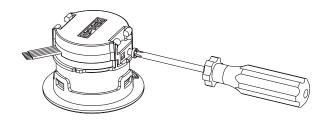
# 2 Jumper pin settings



# 3 Light control mode settings



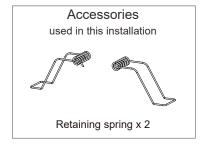
## 4 Assemble



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

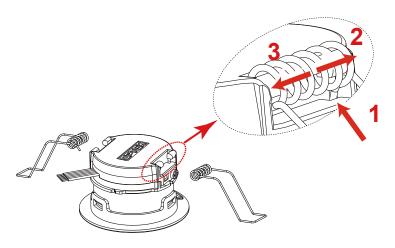
# 2 Installation

## 2-1. Ceiling mount without switch box

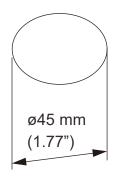


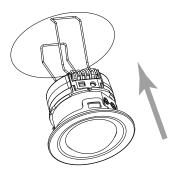
Install a retaining spring on both sides.

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



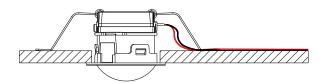
- 2 Make a ø45 mm (1.77") hole in the ceiling for mounting.
- 3 Insert the detector into the hole with the retaining spring facing up.

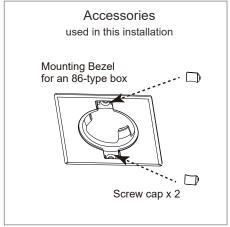




Mount the detector on the ceiling.

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

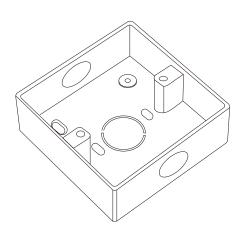




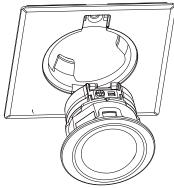
Options
to procure in the market

86-type box x 1
Screw x 2

Prepare an 86-type box on the ceiling.

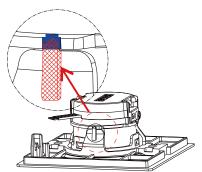


2 Install the detector into the 86-type box.

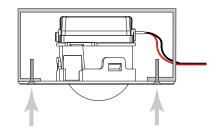


NOTE

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

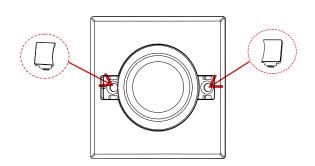


3 Fix the detector with two screws and cover their heads with two caps.



NOTE

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



# 2-3. Wiring



### Power cable length

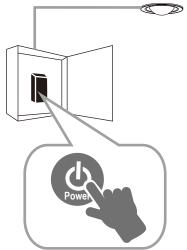
The power cable should be limited to the following length. AP-360B(C)

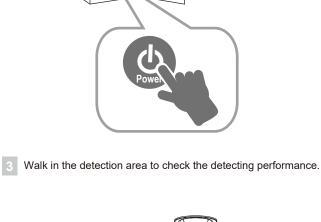
WIRE GAUGE	12 V DC	14 V DC
AWG 22	520 m	1,130 m
(0.33 mm <sup>2</sup> )	(1,710 ft.)	(3, 718 ft.)
AWG 20	820 m	1,790 m
(0.52 mm <sup>2</sup> )	(2,690 ft.)	(5,870 ft.)
AWG 18	1,320 m	2,850 m
$(0.83 \text{ mm}^2)$	(4,330 ft.)	(9.350 ft.)

# Checking

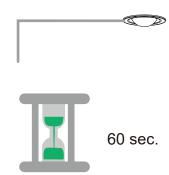
### 3-1. Walk test

Power on.

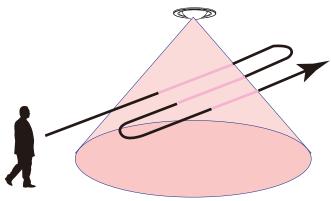


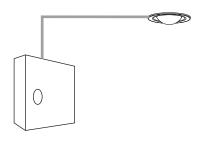


Wait for 60 seconds to complete the warm-up time.



Start operation.





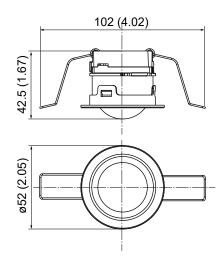
# - Specifications

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 temprature	-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			

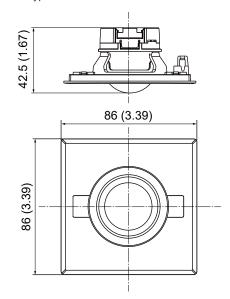
- Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

## - Dimensions

#### Without switch box mount



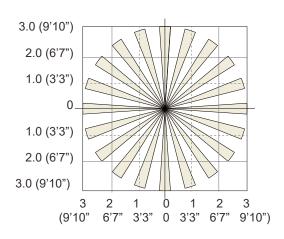
### With 86-type box mount



Unit: mm (inch)

### - Detection area

### Top view

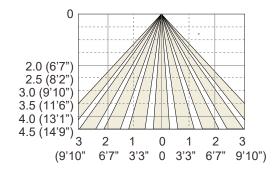


### Maximum detection area

Mounting height	2.5	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

Problem	>	Cause	$\left  \right $	Solution
The LED is off.	$\setminus$	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	/	A moving object exsts in the detection area, such as a fluttering curtain or a swinging wall-mounted pendant.	$\left  \frac{1}{2} \right $	Remove the moving object from the detection area or change the detector location.
person in the detection area.	/	The temperature changes rapidly in the detection area due to a heat source, such as a radiator or air conditioner.	<b>\</b>	Remove the heat source fron the detection area or change the detector location.
The LED is on but the detector	\	Relay contact abhesion or damage occurs due to overload.	}	Check the output load. Repair or replace the damaged part.
does not transmit signals.	/	Improper wiring.	<u> </u>	Connect the wires for the detector correctly.
The detector fails to warm up in 60 seconds after power on and		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 LED blinks continuously.	/	The detector fails to work properly.	Ł	Repair or replace the detector.

## - Compliance

■ EU & UK contact information



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



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