



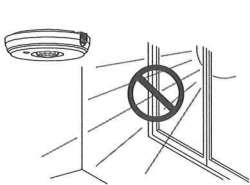
360° CEILING MOUNT PASSIVE INFRARED DETECTOR

APX-360

FEATURES

- Up to 4.5 m mounting height
- Intelligent temperature compensation
- Selectable Sensitivity
- Selectable Pulse Count (2 or 4)
- LED indicator on/off
- EOL design
- Tamper switch
- Insect-proof design
- Simple installation design

1 Installation hints



Avoid direct sunlight.

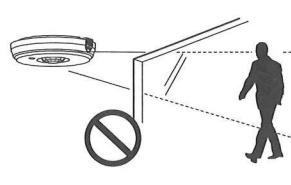
⊘ This symbol indicates prohibition.



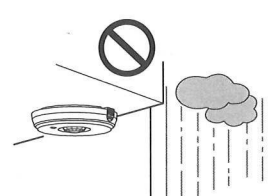
Avoid facing directly to air conditioners or heating vents.



Avoid vapor or high humidity that can cause condensation.

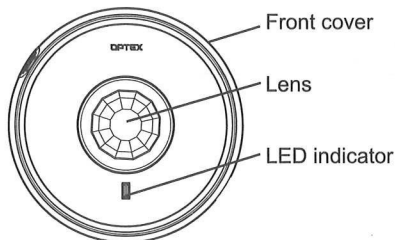


Do not obscure partially or completely the detector's field of view.



Do not install outdoors.

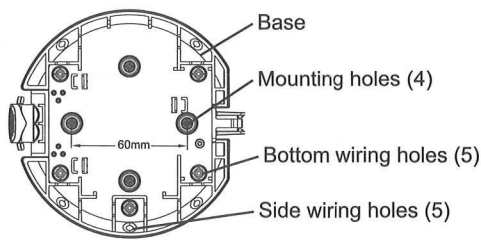
2 Parts identification



Front cover

Lens

LED indicator

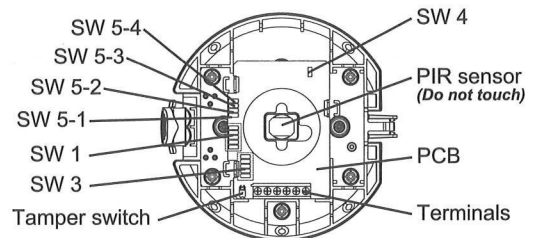


Base

Mounting holes (4)

Bottom wiring holes (5)

Side wiring holes (5)



SW 5-4

SW 5-3

SW 5-2

SW 5-1

SW 1

SW 3

Tamper switch

SW 4

PIR sensor
(Do not touch)

PCB

Terminals



Mounting hole

Compatible with 86 box
Ejection type mounting hole
Break holes with screwdriver

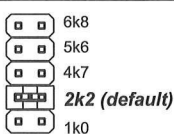


Wiring hole

Ejection type bottom wiring
Ejection type side wiring
Break holes with screwdriver

[SW 1]

[SW 3]



[SW 1] Alarm EOL

[SW 3] Tamper EOL

Select appropriate resistance value via pin switch.



[SW 4] H



M (default)



L

PIR sensitivity

Select H/M/L for PIR sensitivity via pin switch.

[SW 5-1]

[SW 5-2]

[SW 5-3]

[SW 5-4]



2

N.C.

ON (default)



4

N.O.

OFF

(future use)

Pulse count

Alarm output mode

LED indicator ON/OFF

Select each value via pin switch.

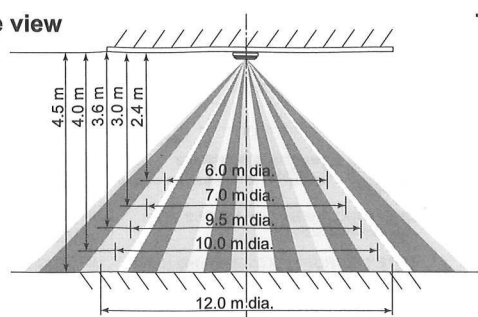
3 Detection area

Maximum detection area

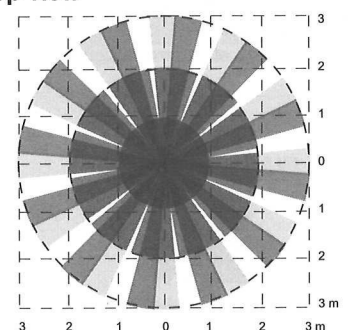
Unit: m

Mounting height	2.4	3.0	3.6	4.0	4.5
Area coverage (diameter)	6.0	7.0	9.0	10.0	12.0

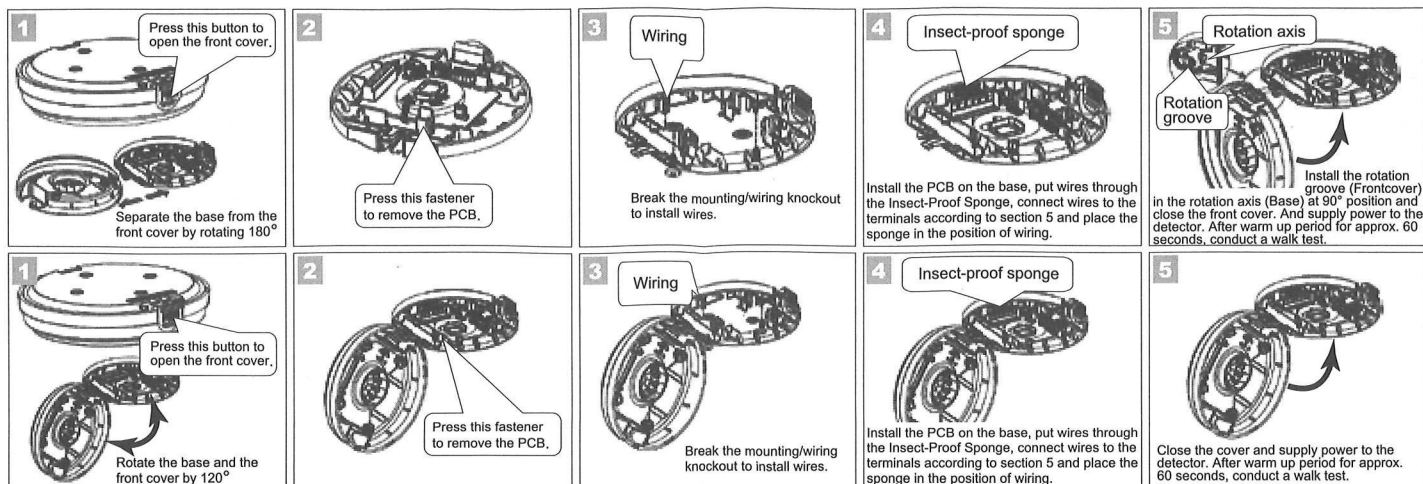
Side view



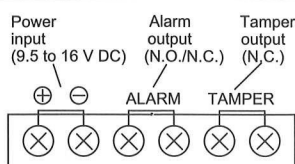
Top view



4 Installation



5 Wiring and LED Description



Power wires should not exceed the following lengths.

Size	12 V DC
AWG22 (0.33 mm ²)	288 m
AWG20 (0.52 mm ²)	453 m
AWG18 (0.83 mm ²)	724 m

- The connection distance between the power supply and the detector should not exceed the lengths shown in the left table.
- When using two or more detectors on one wire, the maximum length is obtained by dividing the length shown in left table by the number of detectors used.
- When side mounting holes are used, only the wire with diameter smaller than 4.5 mm dia. can be used.

LED description

Warm-up	Flash
Standby	OFF
Alarm output	ON
Fault output	Rapid flash

6 Troubleshooting and Maintenance

PROBLEM	PROBABLE CAUSE	REMEDY
LED indicator does not light	Power voltage is not correct (Disconnected or low)	Correct power voltage to 9.5-16 V DC
	Detection area is not correct	Refer to section 3
	LED indicator switch is on "OFF"	Turn the switch to "ON" (refer section 2)
LED indicator lights even when no one is in the detection area	Moving object is in detection area (curtain, wall pendant, etc)	Remove moving object or change detector position
	Temperature in detection area changes rapidly (heater, air-conditioner, etc)	Remove heat source or change detector position
LED indicator lights but signal is not sent	Relay contact bonds or damaged due to overload	Check output load. Repair or replace the part
	Wiring fault	Please connect correctly
Warm-up fails 60s after power-on and LED flashes continuously	Moving object is in detection area during warm-up	Moving object is not allowed in the detection area during warm-up

7 Specifications

Model	APX-360
Detection method	Passive infrared
Detection area	Detection DIA is 6 to 12 m (at 2.4 to 4.5 m mounting height)
Number of detection area	172
Mounting height	2.4 to 4.5 m
Sensitivity	2°C (at 0.6 m/s)
Detection speed	0.3 to 3.0 m/s
LED alarm indicator	ON/OFF selectable
Alarm interval	Approx. 2 s
Alarm output	N.O./N.C., 28 V DC, 200 mA (Max.)
Tamper switch	N.C., open when cover is removed, 28 V DC, 200 mA max.
Pulse counting	2 or 4 selectable
Warm-up time	Approx. 60 s
Power input	9.5 to 16 V DC
Current	20 mA max.
Weight	140 g
Operating temperature	-20°C to +50°C
Ambient humidity	95% max.
Anti RF interference	80 MHz to 1 GHz, no false alarm below 10 V/m
Place of use	Indoor

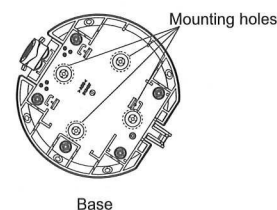
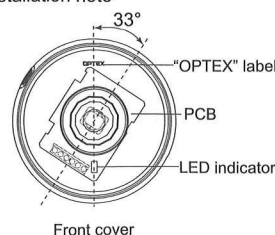
* Specifications and design are subject to change without prior notice.

Dimensions



Unit: mm

Installation note



EU & UK contact information



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



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