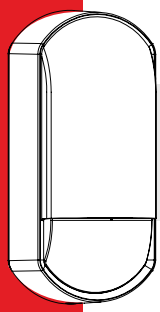


STANDARD MODELS

	Wide/Narrow area Flip lens	PIR
IR-D-P1	✓	✓

CONTENTS

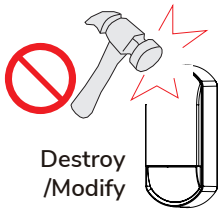
Before installation

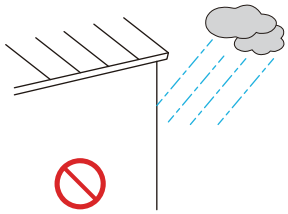
- Manufacturer's statement

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.

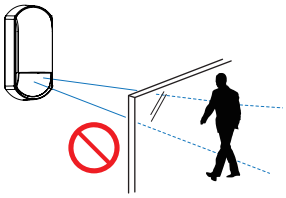
Symbol	Meaning
✓	Check mark indicates recommendation.
⊘	Nix sign indicates prohibition.
NOTE	Special attention is required to the section of this symbol.

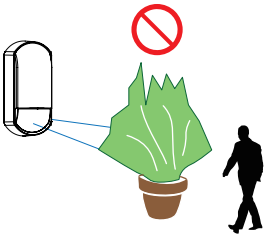
⚠ Warning


Destroy /Modify

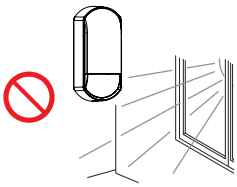

Outdoor installation

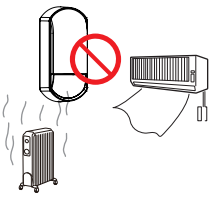

Wetting with water

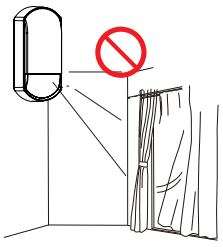

Detection through glass

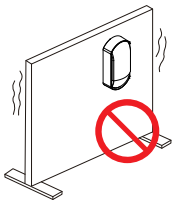

Partial/complete obscuration of the detection area.

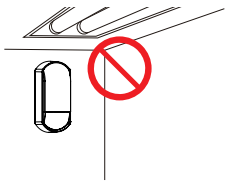
⚠ Caution



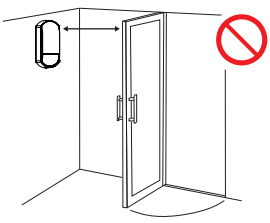


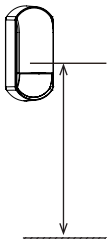






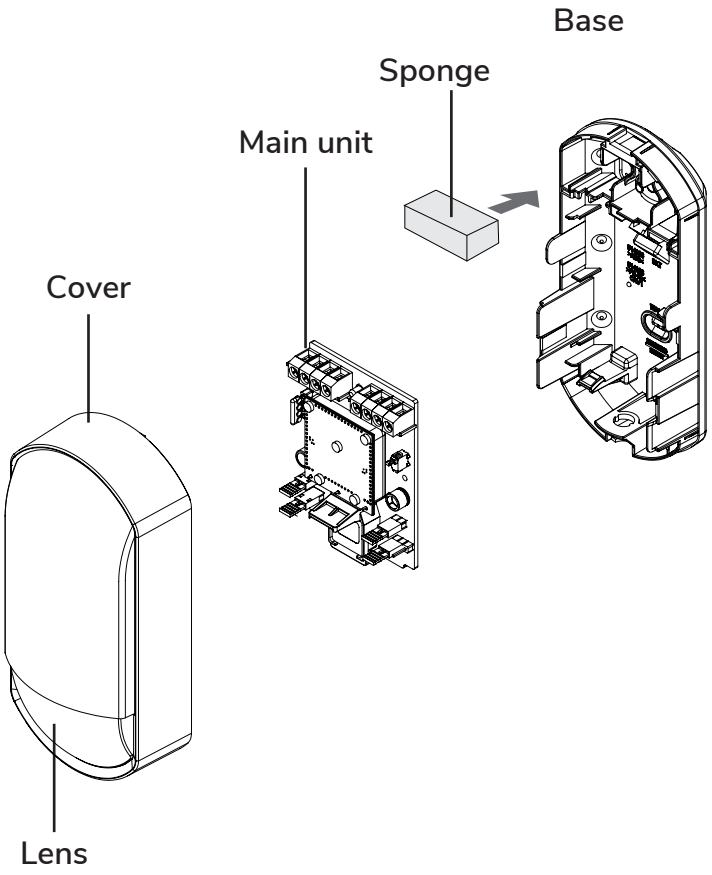
< 1 m




Mounting height
2.0 to 3.0 m (6'7" to 9'8")
2.4 m (8') recommended

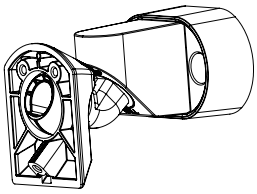

Follow to the Regulations

- Parts identifications



Option

IR-D-CW-G2*
Bracket for wall / ceiling mount

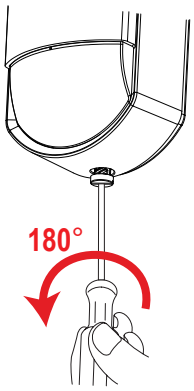


* Not certified to EN 50131-2-2/4

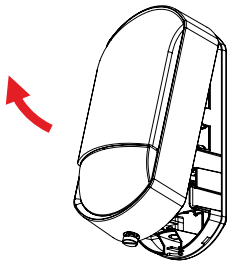
1 Installation

1-1. Disassemble

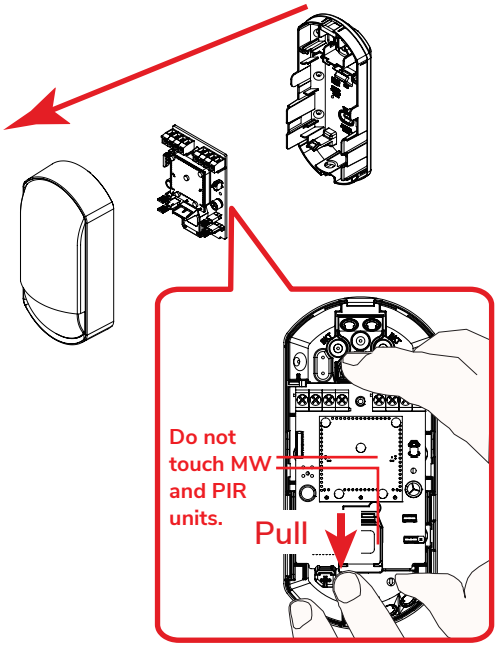
1 Unlock the cover



2 Open the cover



3 Remove the main unit

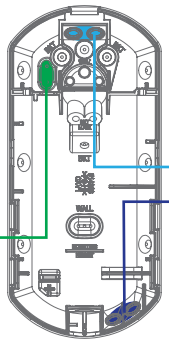


1-2. Wall mount without bracket

1 Wire through the base

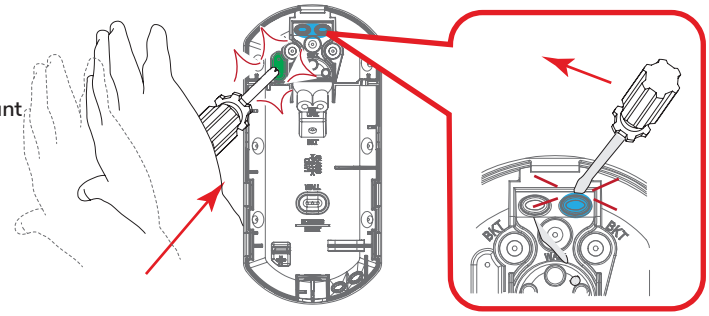
Wiring knockouts

For Wall/ Corner mount
Hidden wiring



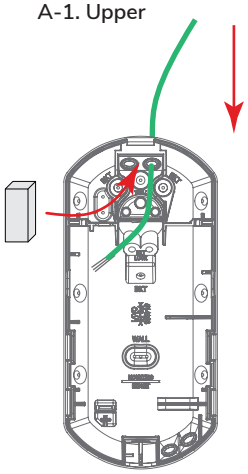
For Wall/ Corner mount
Surface wiring
: Upper
: Lower

How to break the knockouts

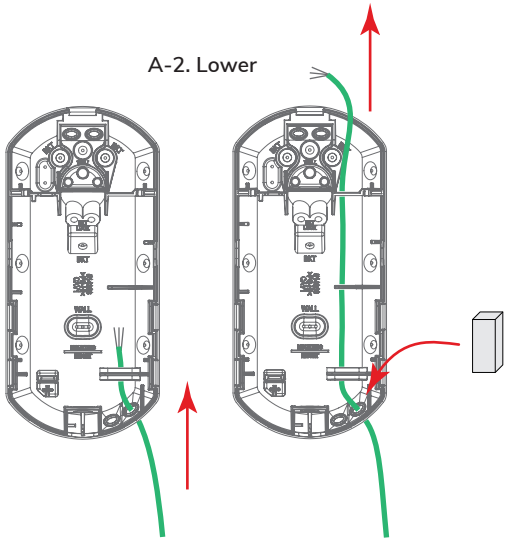


A. Surface wiring

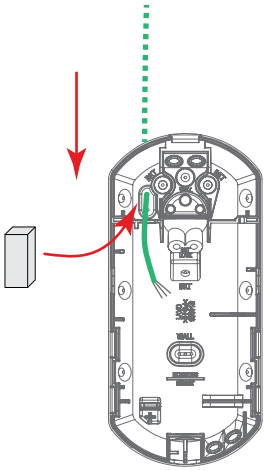
A-1. Upper



A-2. Lower

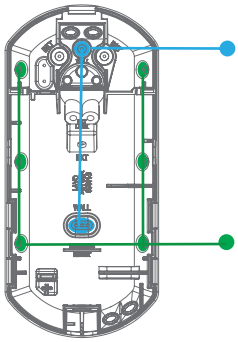


B. Hidden wiring



2 Mount the base

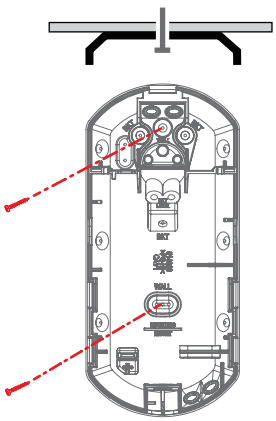
Mounting holes



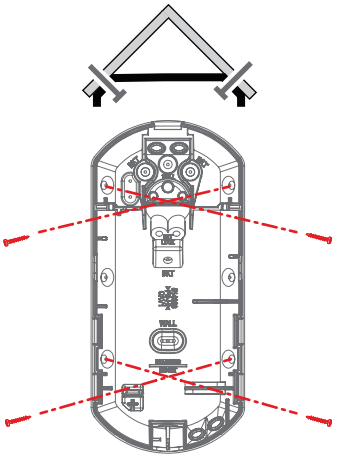
For Wall mount

For Corner mount
Select 2 of the 3 on each side.

a. Wall mount



b. Corner mount



NOTE

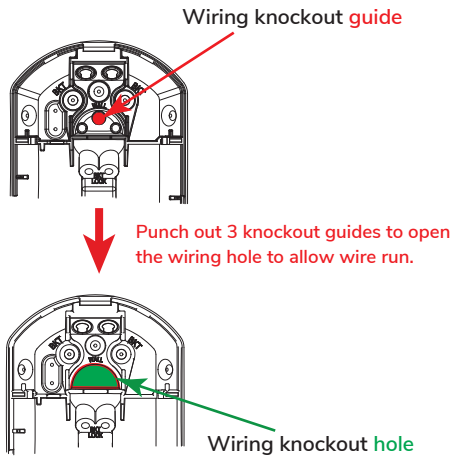
Mounting screws are not included.

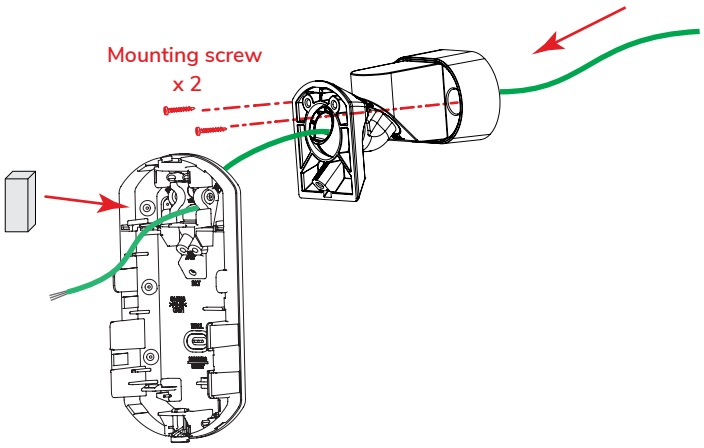
Φ 3 mm screws are recommended.

Go to Page 7

1-3. Wall mount with bracket

1 Wire and mount on the wall

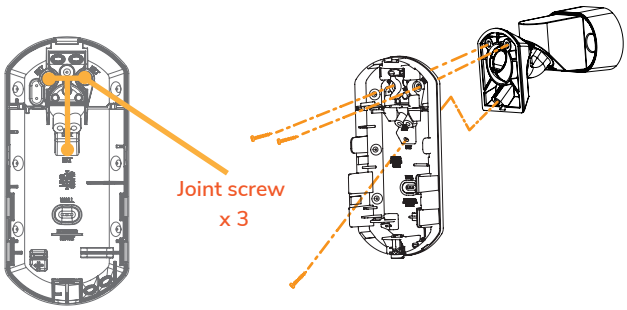




NOTE

See page 4 for how to break the knockouts.

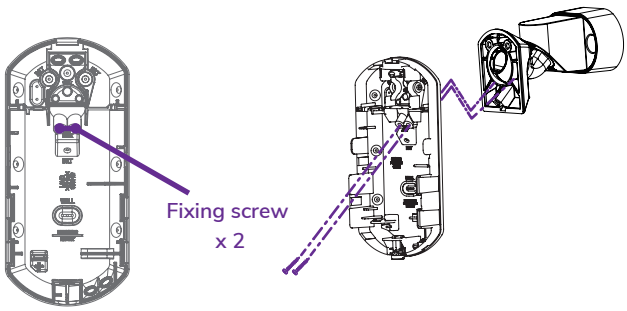
2 Join the base on the bracket



NOTE

Adjust the detection direction while jointing.
Confirming with a walk test is required.
--> Refer to “3-1. Walk test"

3 Fix the base with the fixing screws (optional)



The bracket is basically jointed using 3 holes and 3 joint screws.
Also use 2 additional fixing screws if stronger support is required.

NOTE

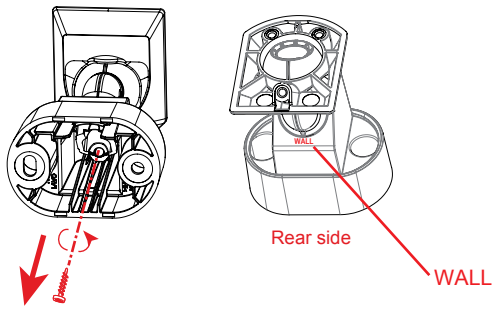
2 fixing screws are required for the Grade 2 and higher grade installation.

Go to Page 7

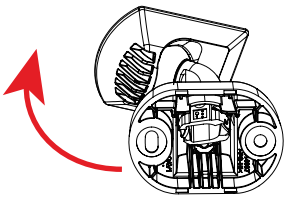
1-4. Ceiling mount with bracket

How to change the bracket to the ceiling mounting

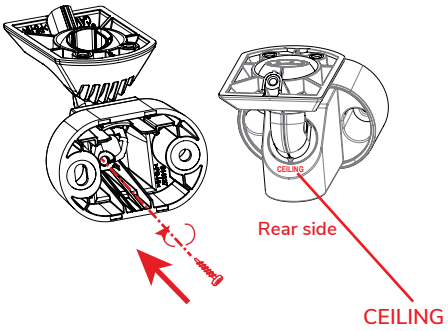
[1] Loosen the fixing screw.



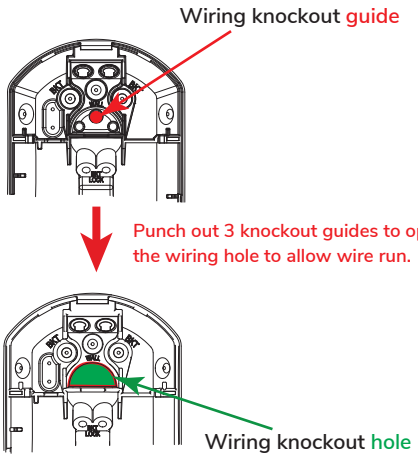
[2] Rotate the body.

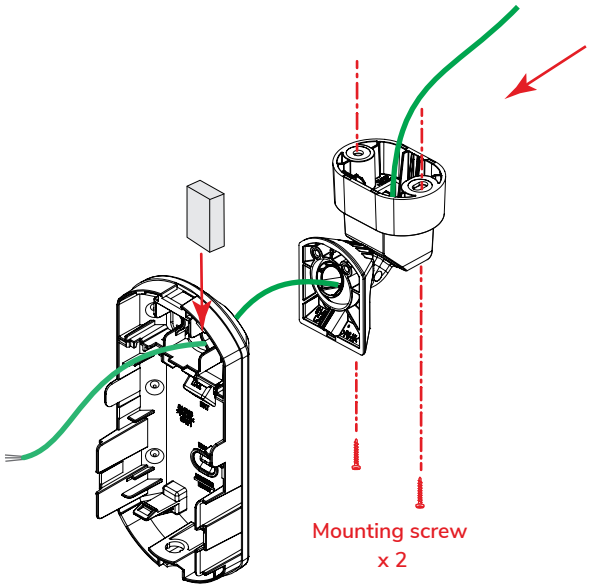


[3] Tighten the fixing screw.



1 Wire and mount on the ceiling

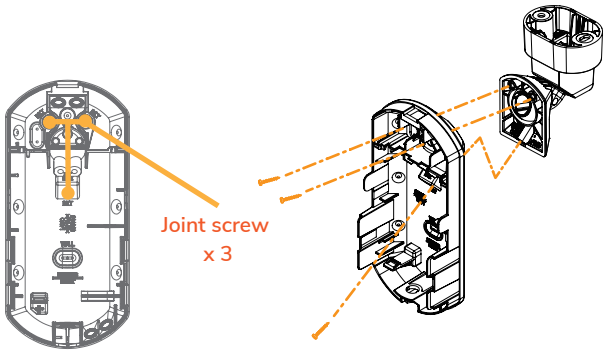




NOTE

See page 4 for how to break the knockouts.

2 Join the base on the bracket



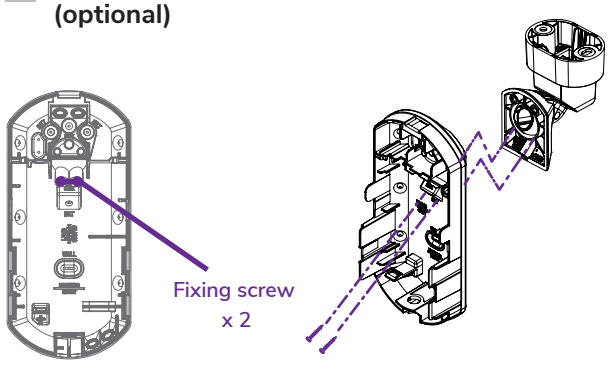
NOTE

Adjust the detection direction while jointing.

Confirming with a walk test is required.

--> Refer to “3-1. Walk test"

3 Fix the base with the fixing screws (optional)



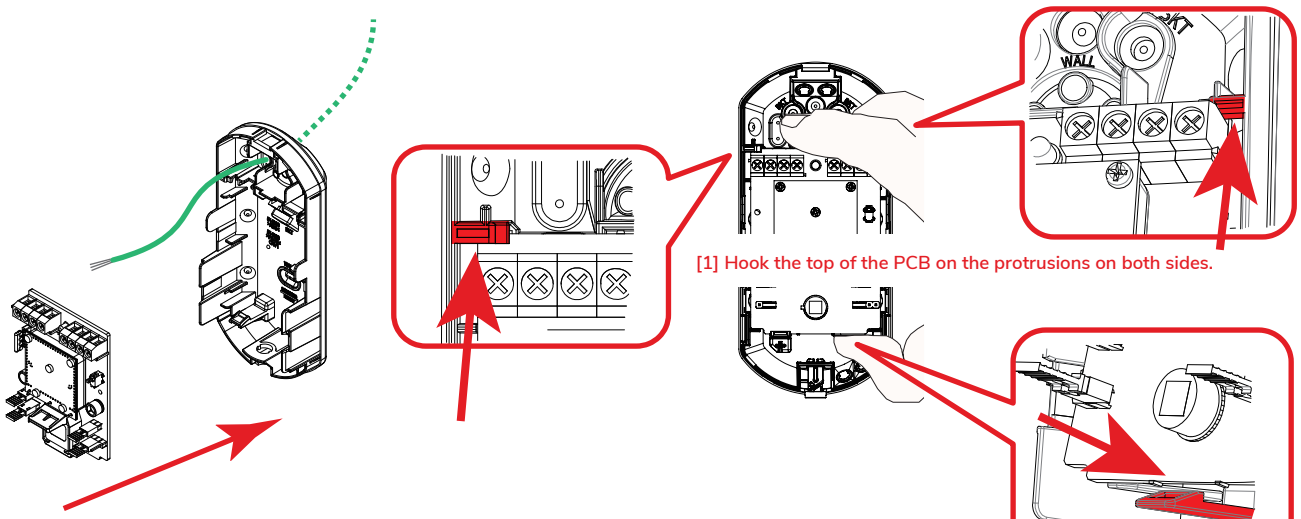
The bracket is basically jointed using 3 holes and 3 joint screws.
Also use 2 additional fixing screws if stronger support is required.

NOTE

2 fixing screws are required for the Grade 2 and higher grade installation.

1-5. Assemble and connect

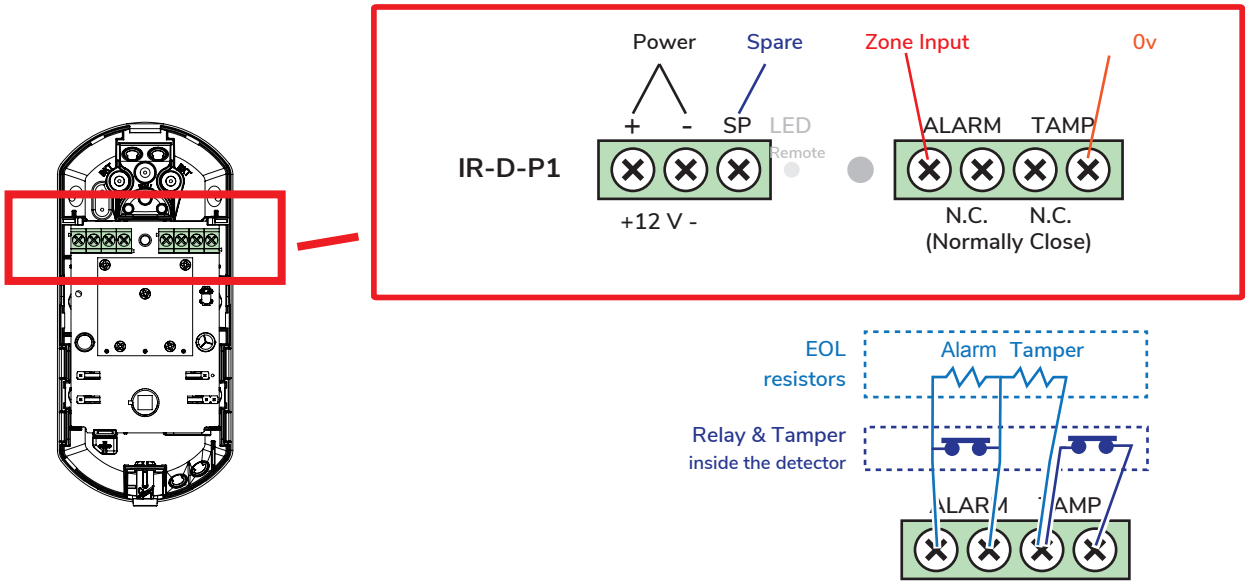
1 Attach the main unit to the base



[1] Hook the top of the PCB on the protrusions on both sides.

[2] Push the bottom of the PCB over the protruding claws.

2 Connect wires to the terminal



Power cable length

The power cable should be limited to the following length.

IR-D-P1

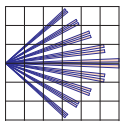
WIRE GAUGE	12 V DC	14 V DC
AWG 22 (0.33 mm²)	520 m (1,710 ft.)	1,130 m (3, 718 ft.)
AWG 20 (0.52 mm²)	820 m (2,690 ft.)	1,790 m (5,870 ft.)
AWG 18 (0.83 mm²)	1,320 m (4,330 ft.)	2,850 m (9,350 ft.)

2 Settings

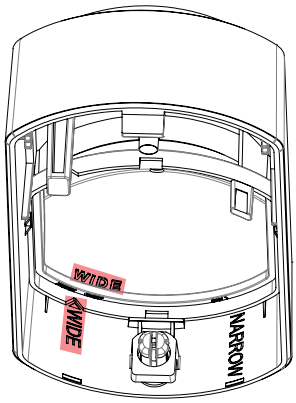
2-1. Wide/Narrow setting

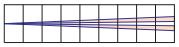
1 Set the Flip lens to “Wide" or “Narrow"

Go to 2-2 on Page 9 to skip 2-1 when using the default “Wide” setting.

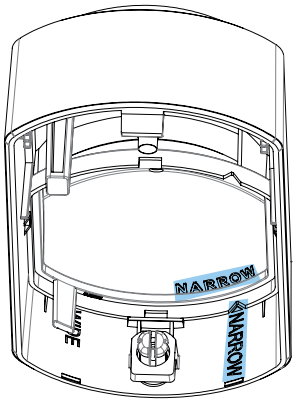


WIDE
Default





NARROW

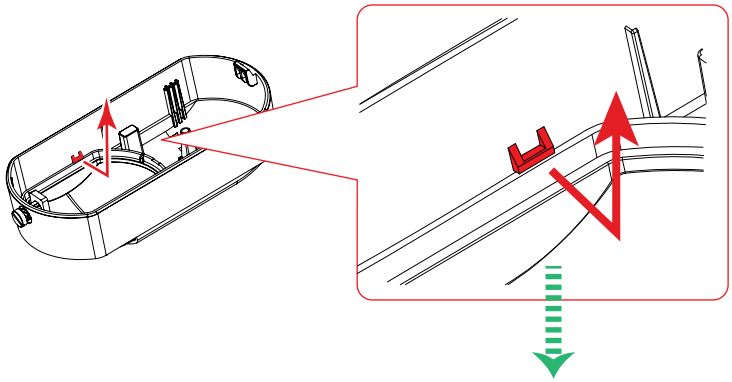


NOTE

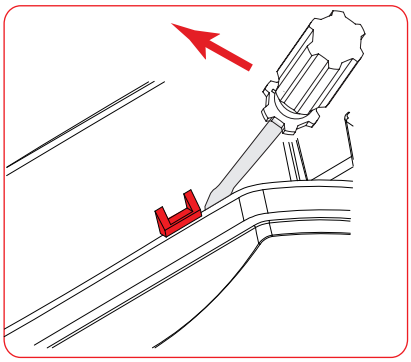
Install the lens so that the letters on the cover and on the lens match your intention.

How to remove the lens

Get over the rib, then pull up the lens.

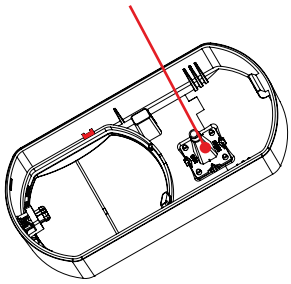


If it is difficult to get over, use a flathead screwdriver.



⚠ Caution

- Be careful not to damage the light path of the LED.
- Also, be careful not to allow the light path to pinch the wiring when closing the cover.

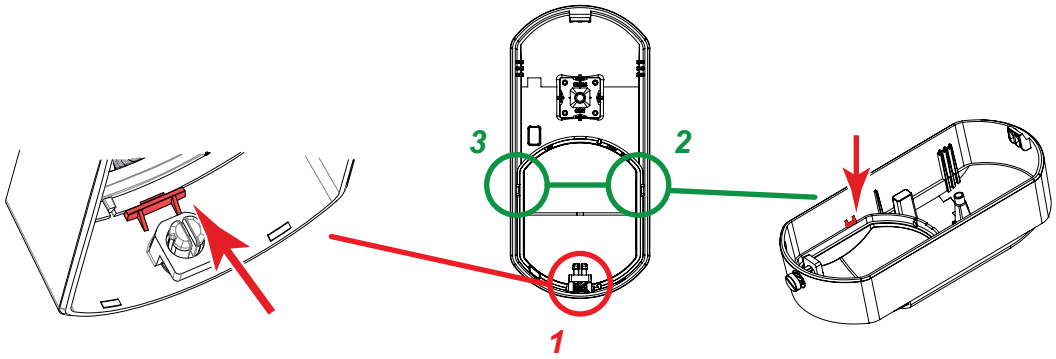


⚠ Caution

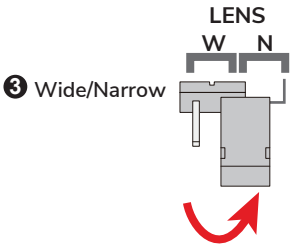
- Be careful not to damage the lens with a screwdriver.

How to install the lens

Push the lens firmly at 3 points in **numerical order**.



2 Set the jumper pin to “Wide" or “Narrow"



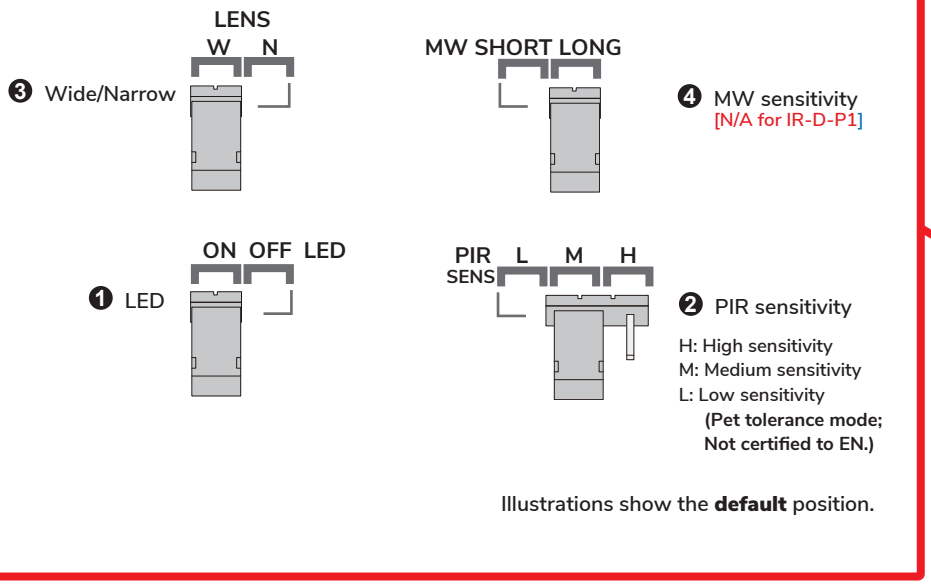
⚠ Caution

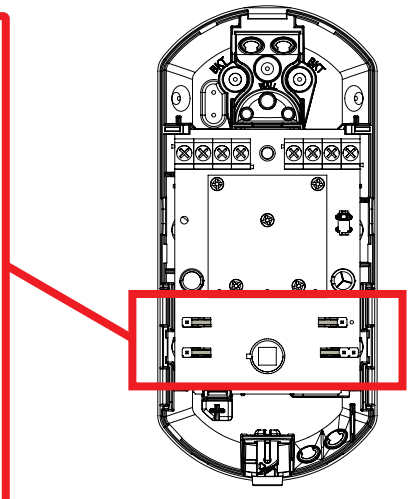
- The jumper pin must be “Narrow", when the lens is set to “Narrow".

NOTE

- Default setting is “Wide".
- When “Narrow" is selected, MW detection will be disabled.

2-2. Jumper pin settings

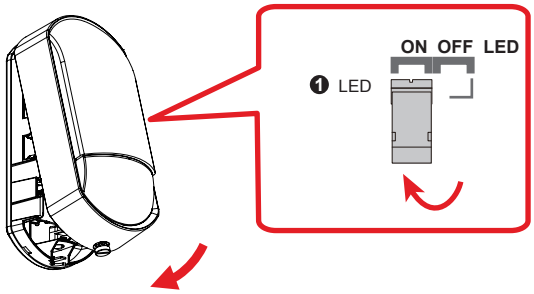




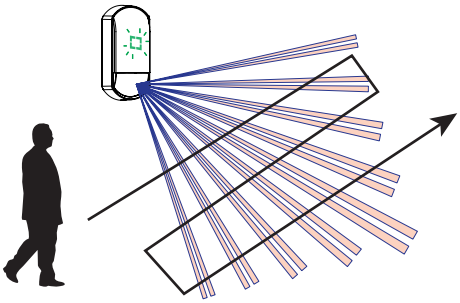
CHECKING

3-1. Walk test

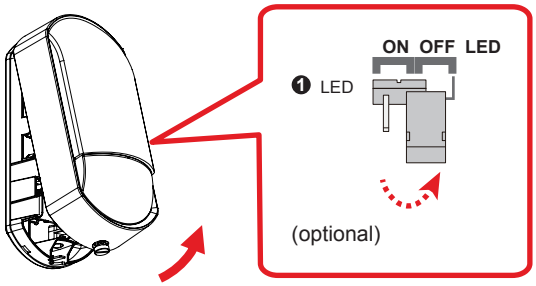
1 Confirm that the LED pin is “ON" , then close the cover.



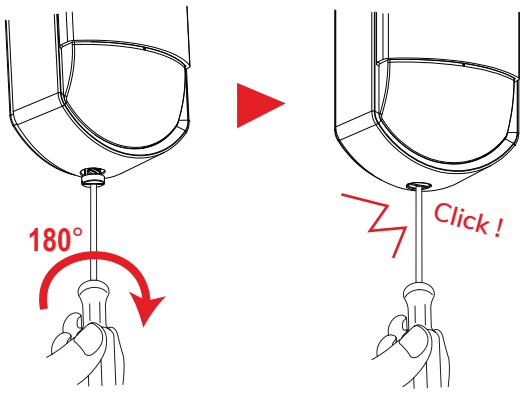
2 Walk in the detection area to check the detecting performance via LED indication.



3 Return the LED pin to “OFF" after the walk test, if necessary.



4 Lock the cover



NOTE

Conduct a walk test at least once a year.

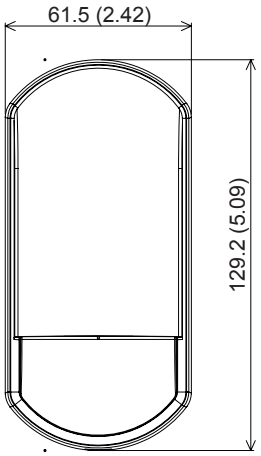
- Specifications

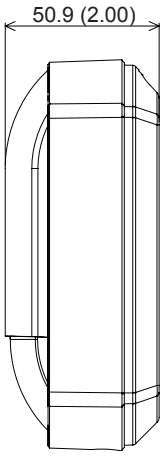
Model		IR-D-P1
Installation		
Detection method		Passive infrared
Coverage		Wide：12 m (40 ft.) 85° Narrow：18 m (60 ft.) 5° (No MW detection at "Narrow" setting)
Detection zones		Wide: 76 zones/ Narrow: 12 zones
Mounting height		2.0 to 3.0 m (6'7" to 9'8")
Alarm period		2.0 ± 0.5 s
Warm-up period		Approx. 60 s (LED blinks)
LED indicator		Switchable ON/OFF Green: [1] Warm-up [2] Alarm
Electrical		
Power input		9.5 to 16 V DC UL*
Current draw		8 mA (normal) 11 mA (max.) at 12 V DC
Relay output	Alarm	N.C. 24 V DC 0.1 A max. (Resistive load)
	Tamper	N.C. 24 V DC 0.1 A max. (Resistive load) (Open when the cover is removed.)
Remote LED		———
Environmental		
Operation temperature		-20℃ to +50℃(-4°F to +122°F)
Temperature compensation		Digital (SMDA)
Environmental humidity		95% max.
RF interference		No alarm 10 V/m
Mechanical		
Dimension		H: 129.2 x W: 61.5 x D: 50.9 mm (H: 5.09" x W: 2.42" x D: 2.00")
Weight		Approx. 90 g (3.17 oz) (with Bracket : Approx. 120 g (4.23 oz))
Mounting		Wall, Corner (Indoor) (with Bracket : Wall, Corner, Ceiling)

- 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.

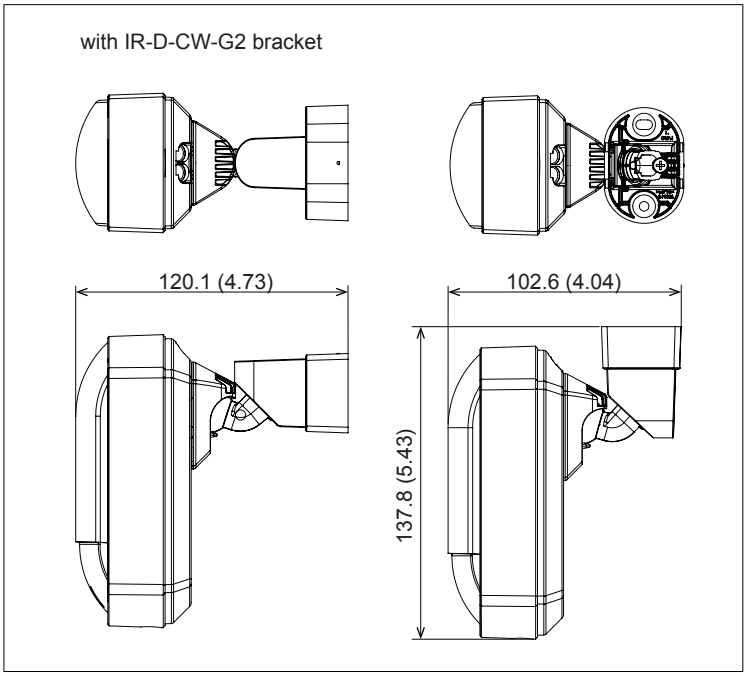
UL* Shall be powered via a UL listed burglar alarm class 2 output power limited power supply that has a min standby power of 4 hrs.

- Dimensions



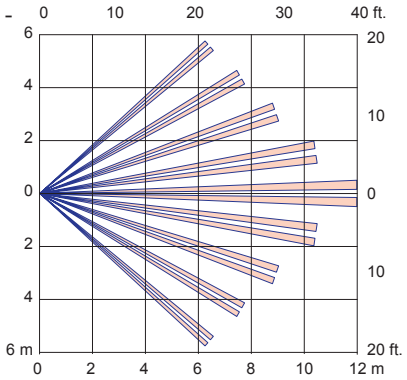


Unit: mm (inch)

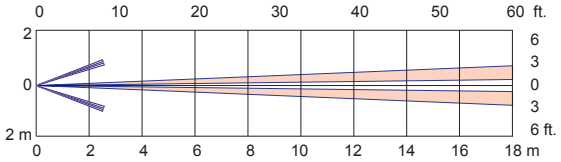


- Detection area

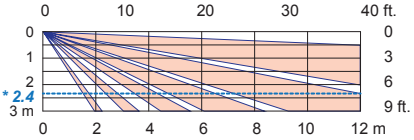
Wide - Top view -



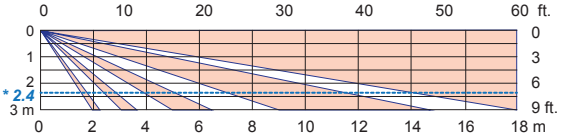
Narrow - Top view -



Wide - Side view -



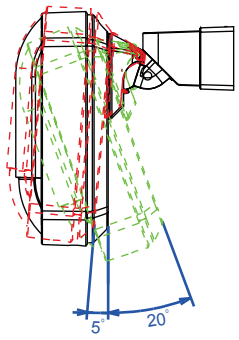
Narrow - Side view -

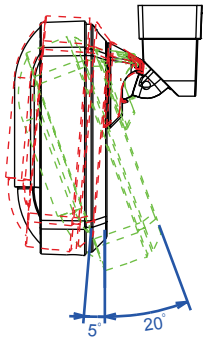


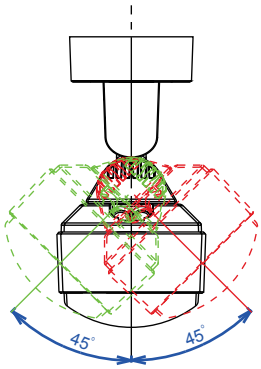
NOTE

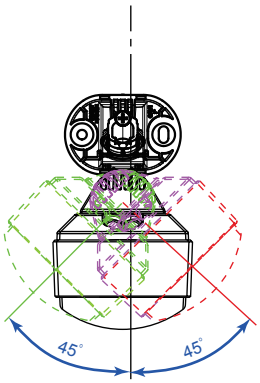
- The * 2.4 m dotted line indicates the recommended mounting height.
- Narrow area settings are not certified to the following standards.
  EN 50131-2-2 (IR-D-P1)

- Angle adjustment with bracket IR-D-CW-G2



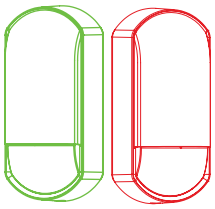


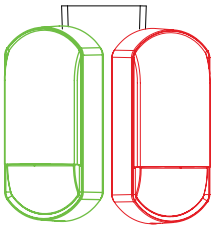




NOTE

* If the detector cover does not reach the ceiling, it can be swung up to +5°.





- Compliance

EN 50131-1 Grades and Environmental Class; Security Grade 2, Environmental Class II
Applied Standards; EN 50131-2-2 (IR-D-P1)
Tested and certified by Kiwa
PD6662:2017v

inner range

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