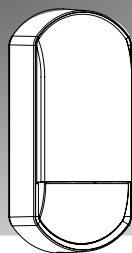


INSTALLATION INSTRUCTIONS

EN



Flexible Range Indoor Detector

FlipX series

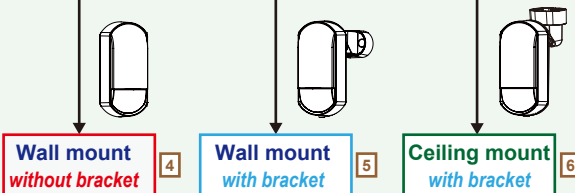
PROFESSIONAL MODELS

	Wide/Narrow area Flip lens	PIR	Microwave
FLX-P-ST	✓	✓	
FLX-P-DT-X5	✓	✓	✓ (10,525 GHz)
FLX-P-DT-X8 *1	✓	✓	✓ (10,587 GHz)
FLX-P-DT-X9 *2	✓	✓	✓ (9,425 GHz)

*1 Not certified to UL

*2 Not certified to UL, INCERT and EN 50131

<< Contents >>

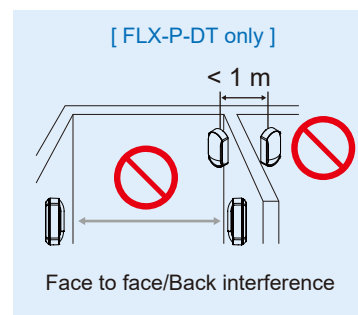
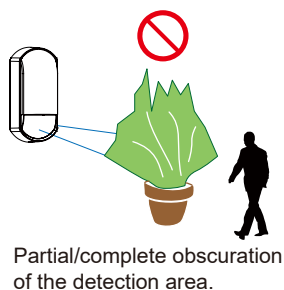
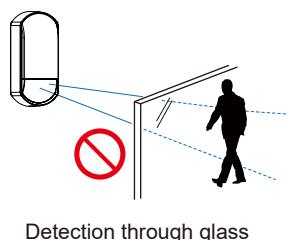
Before installation	
- Manufacturer's statement	Page 2
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1 Installation	
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Wide/Narrow setting	8
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Others	
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- Detection area	13
- Angle adjustment <i>with bracket CW-G2</i>	14
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Before installation

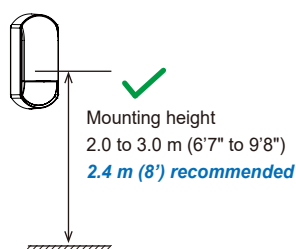
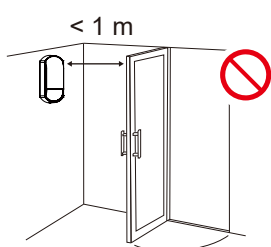
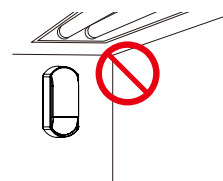
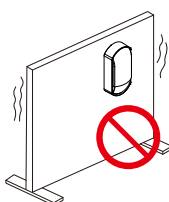
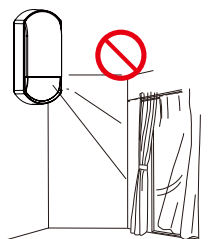
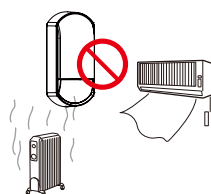
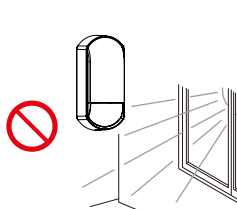
- Manufacturer's statement

Symbol	Meaning	Symbol	Meaning
 Warning	Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.		Check mark indicates recommendation.
 Caution	Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.		Nix sign indicates prohibition.
		NOTE	Special attention is required to the section of this symbol.

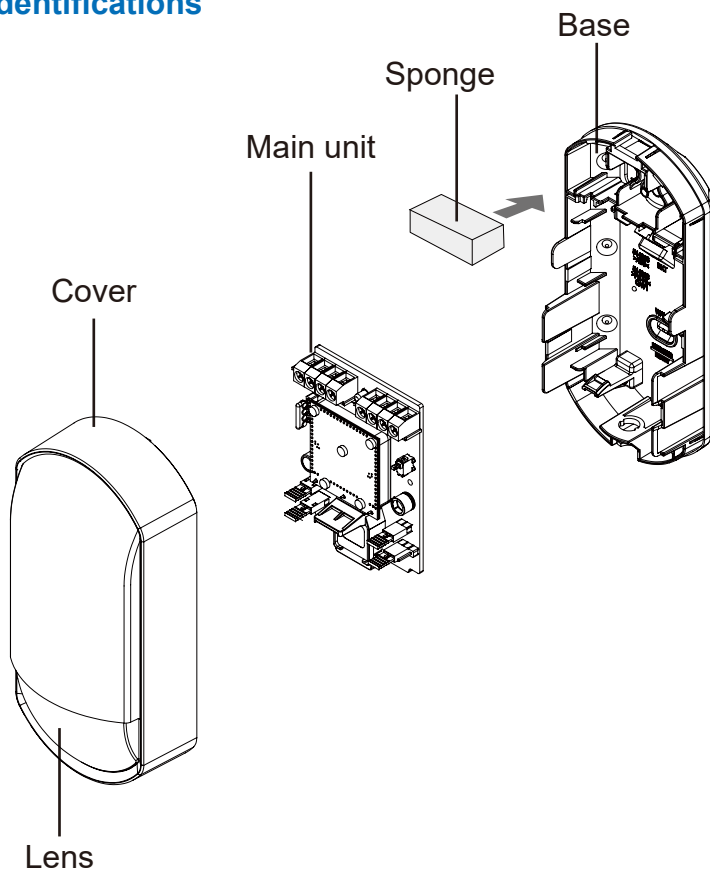
Warning



Caution



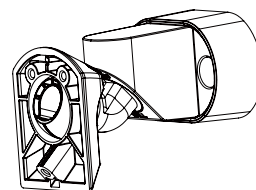
- Parts identifications



Option

CW-G2 *

Bracket for wall/ceiling mount



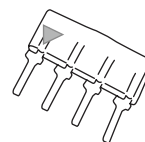
Mounting screw x 2

Joint screw x 3

Fixing screw x 2

PEU **

Plug-in EOL Unit

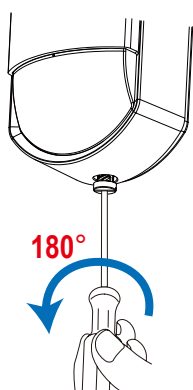


* Not certified to SBSC.
 ** Not evaluated by UL

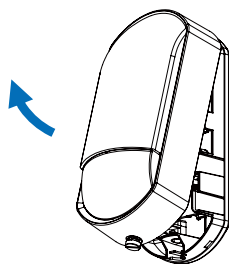
1 Installation

1-1. Disassemble

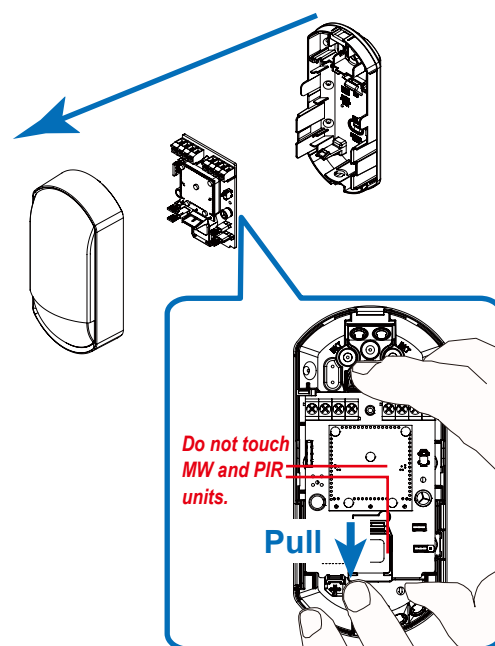
1 Unlock the cover



2 Open the cover



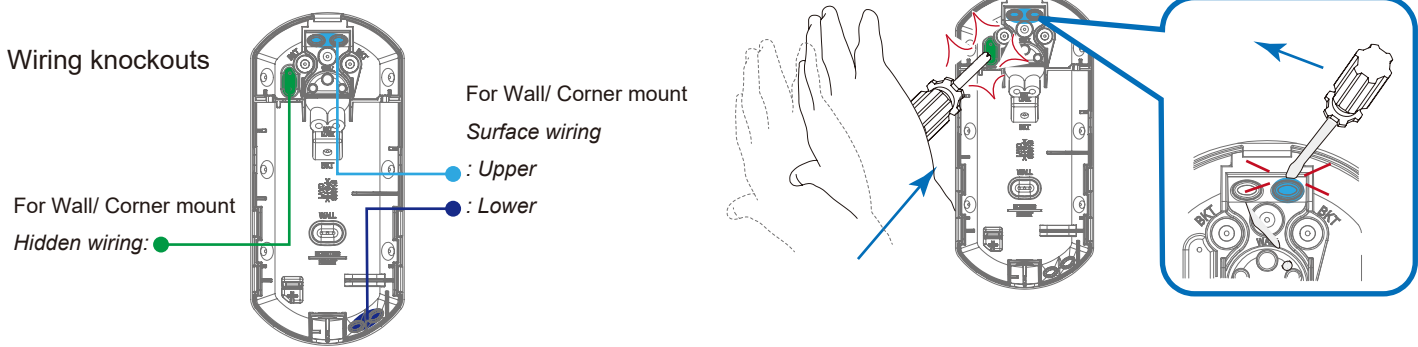
3 Remove the main unit



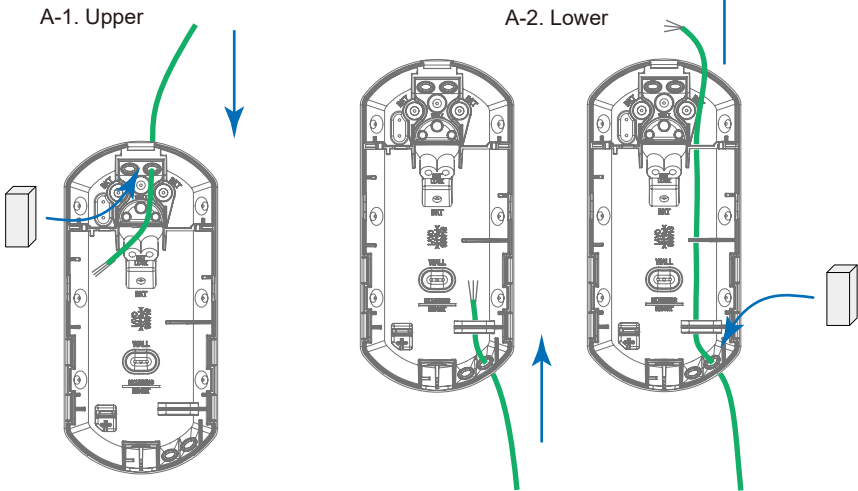
1-2. Wall mount without bracket

1 Wire through the base

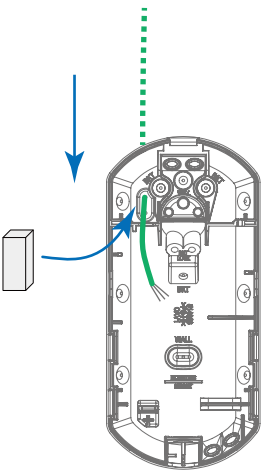
How to break the knockouts



A. Surface wiring

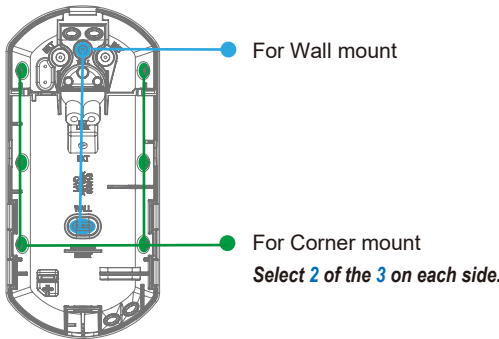


B. Hidden wiring



2 Mount the base

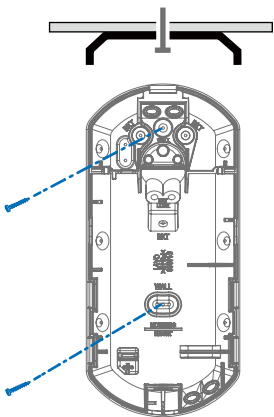
Mounting holes



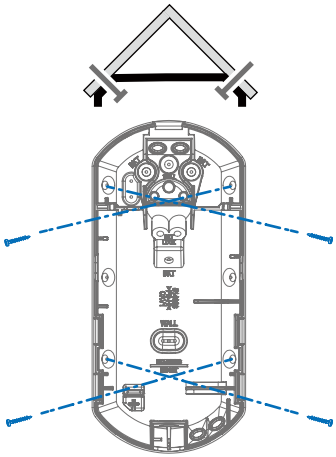
NOTE

Mounting screws are not included.
Φ 3 mm screws are recommended.

a. Wall mount

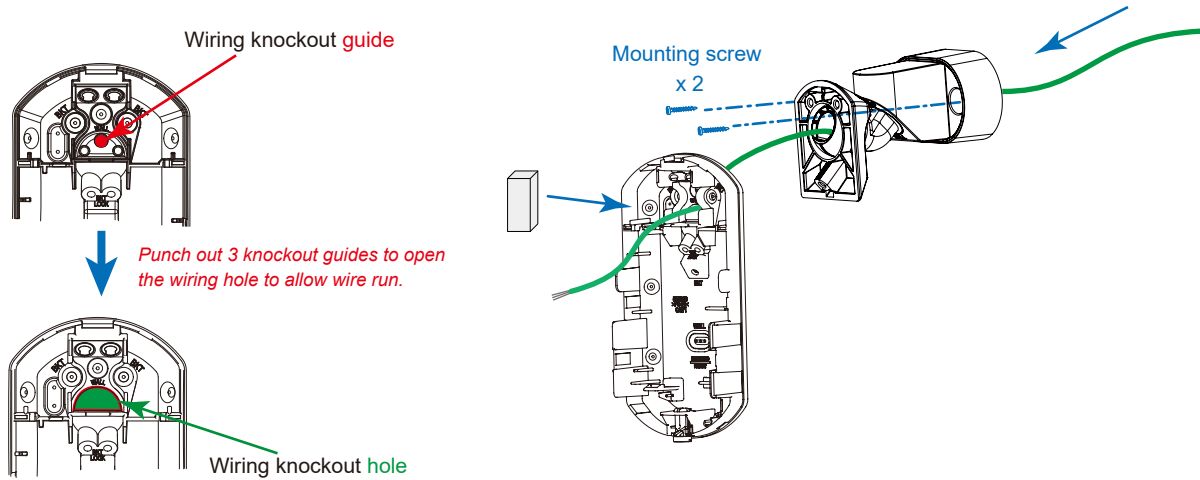


b. Corner mount



1-3. Wall mount with bracket

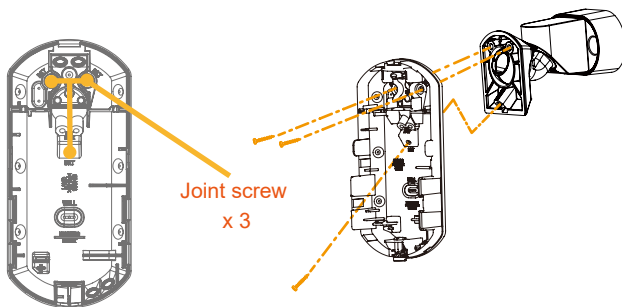
1 Wire and mount on the wall



NOTE

See page 4 for how to break the knockouts.

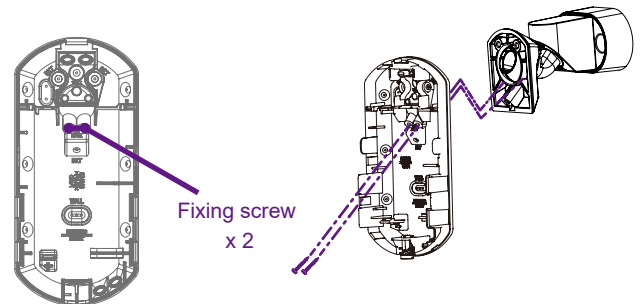
2 Join the base on the bracket



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)



NOTE

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

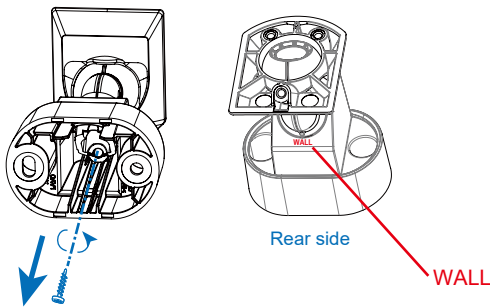
* Not evaluated by UL.

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

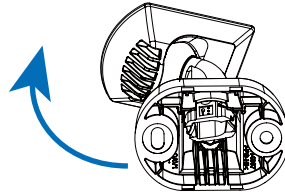
1-4. Ceiling mount with bracket

How to change the bracket to the ceiling mounting

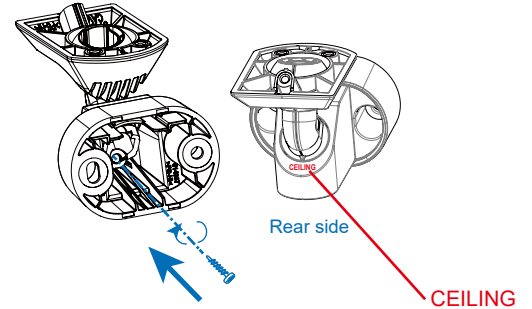
[1] Loosen the fixing screw.



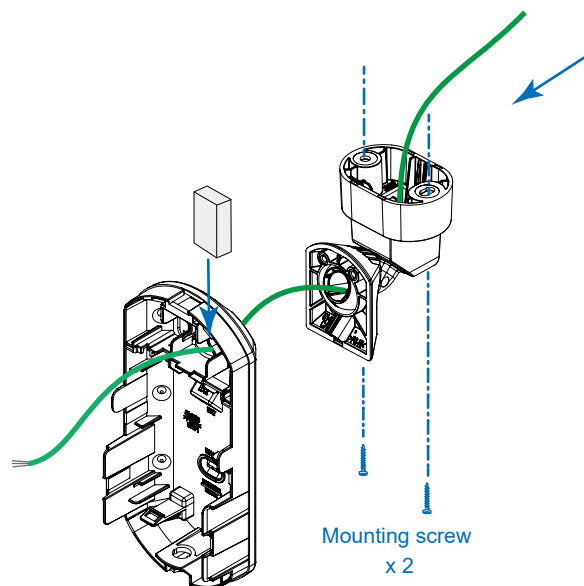
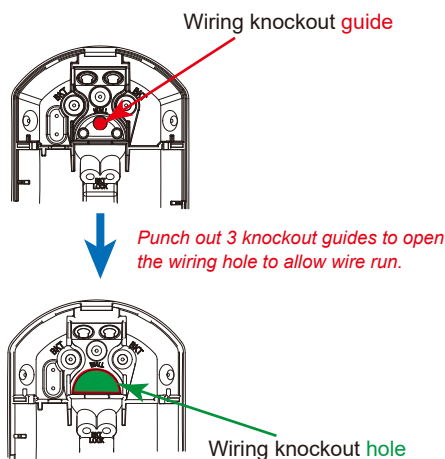
[2] Rotate the body.



[3] Tighten the fixing screw.



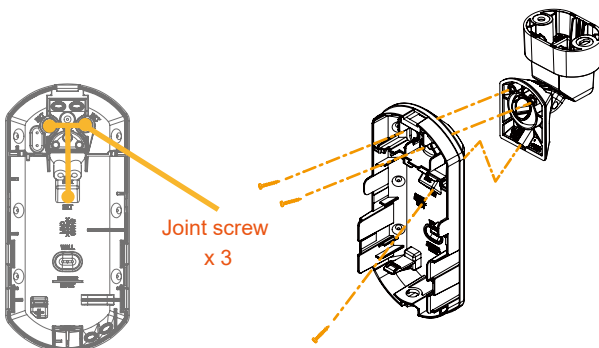
1 Wire and mount on the ceiling



NOTE

See page 4 for how to break the knockouts.

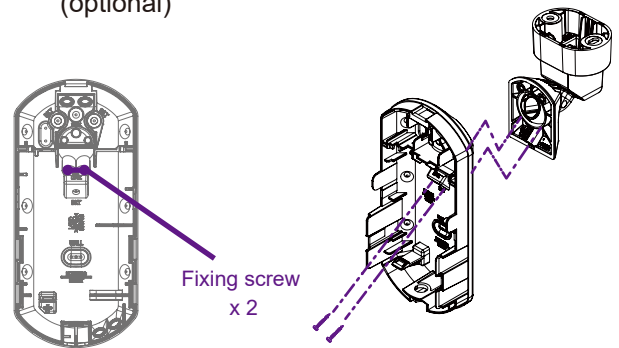
2 Join the base on the bracket



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.

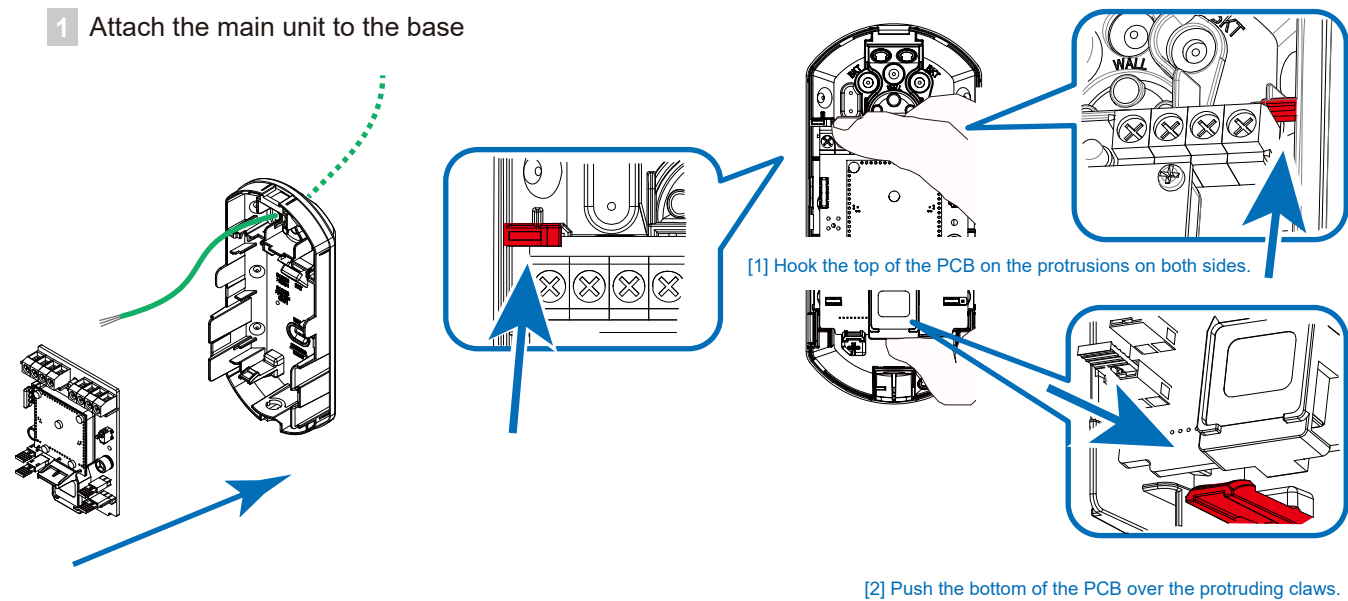
NOTE

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

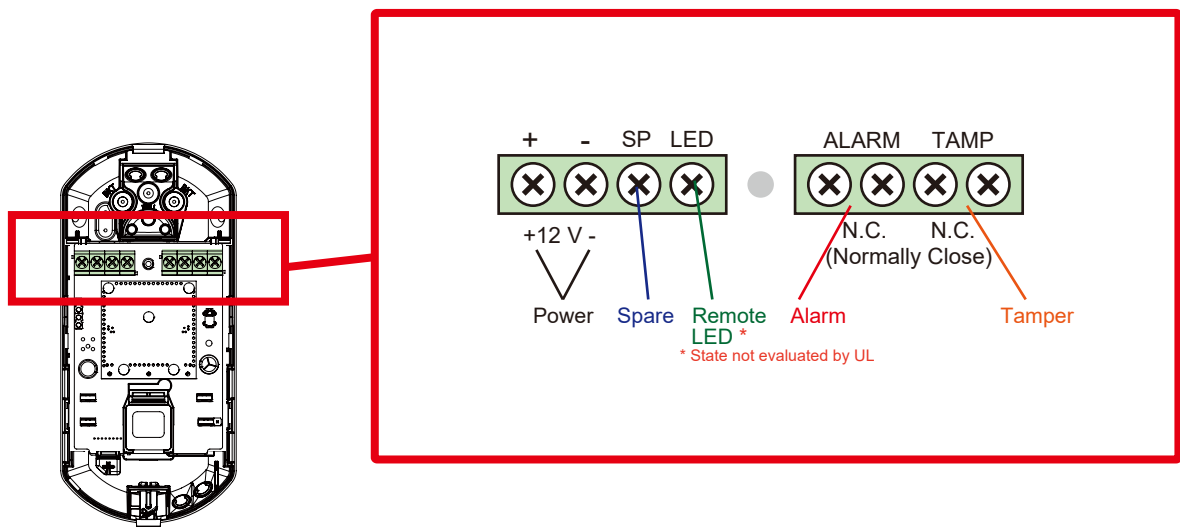
* Not evaluated by UL.

1-5. Assemble and connect

1 Attach the main unit to the base



2 Connect wires to the terminal



Power cable length

The power cable should be limited to the following length.

FLX-P-ST

FLX-P-DT

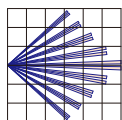
WIRE GAUGE	12 V DC	14 V DC	WIRE GAUGE	12 V DC	14 V DC
AWG 22 (0.33 mm ²)	520 m (1,710 ft.)	1,130 m (3, 718 ft.)	AWG 22 (0.33 mm ²)	410 m (1,350 ft.)	890 m (2,920 ft.)
AWG 20 (0.52 mm ²)	820 m (2,690 ft.)	1,790 m (5,870 ft.)	AWG 20 (0.52 mm ²)	650 m (2,130 ft.)	1,400 m (4,590 ft.)
AWG 18 (0.83 mm ²)	1,320 m (4,330 ft.)	2,850 m (9,350 ft.)	AWG 18 (0.83 mm ²)	1,030 m (3,380 ft.)	2,240 m (7,350 ft.)

2 Settings

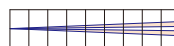
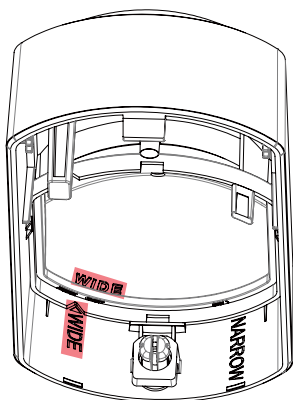
2-1. Wide/Narrow setting

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

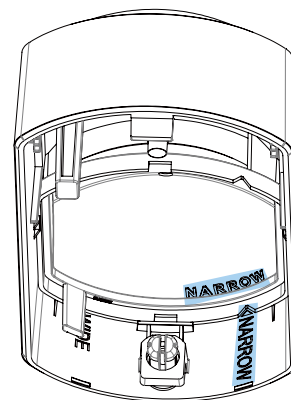
→ Go to 2-2 on ^{Page} 9 to skip 2-1 when using the default "Wide" setting.



WIDE
Default



NARROW

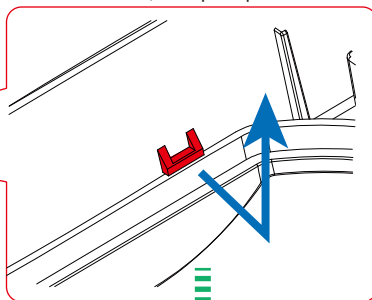
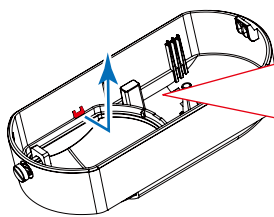


NOTE

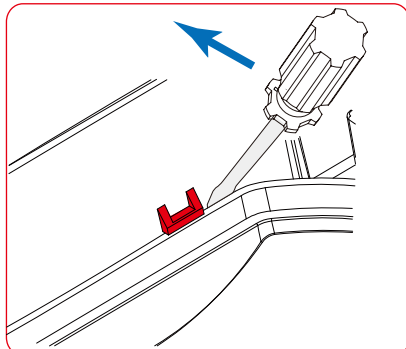
Install the lens so that the letters on the cover and on the lens match your intention.

How to remove the lens

Get over the rib, then pull up the lens.

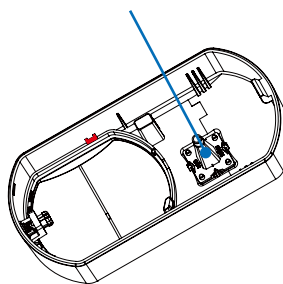


If it is difficult to get over, use a flathead screwdriver.



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.

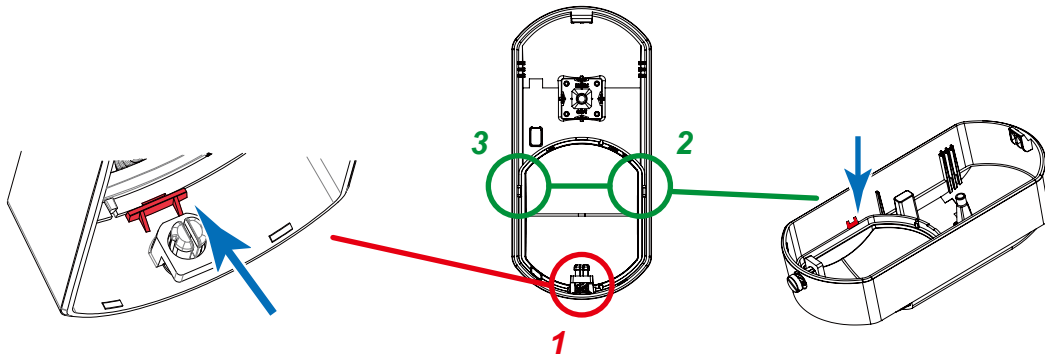


Caution

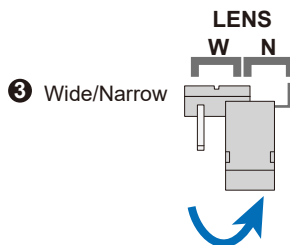
- Be careful not to damage the lens with a screwdriver.

How to install the lens

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



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



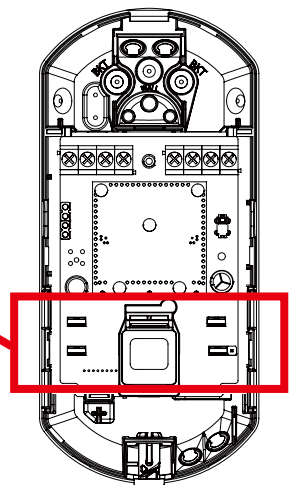
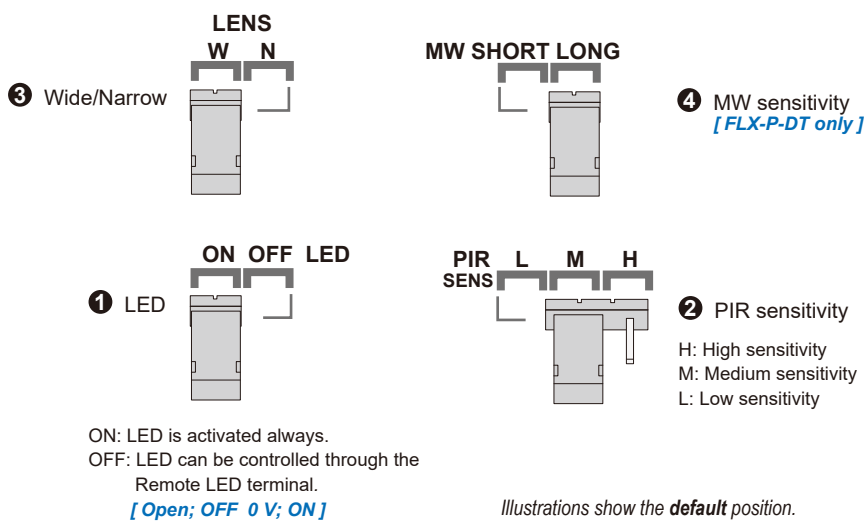
Caution

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

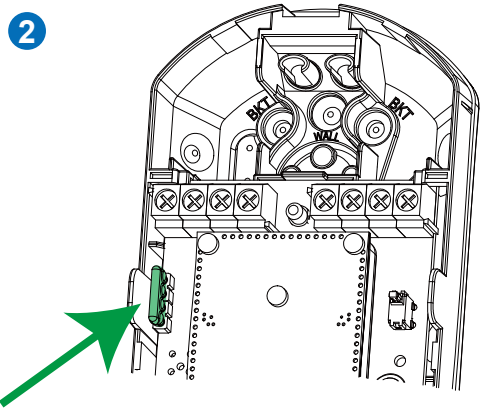
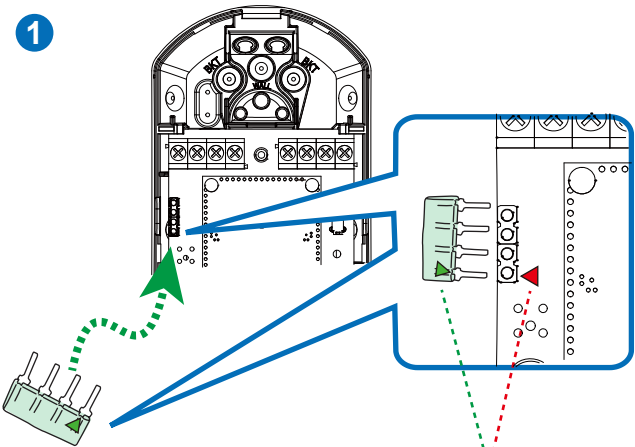
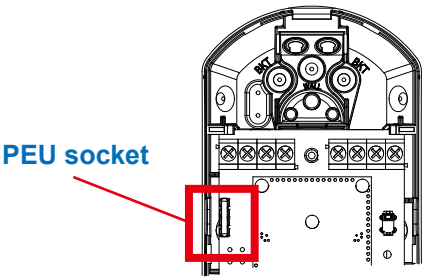
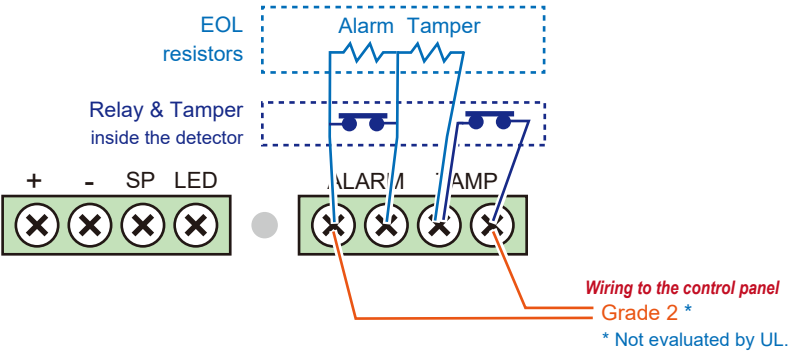
NOTE

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

2-2. Jumper pin settings



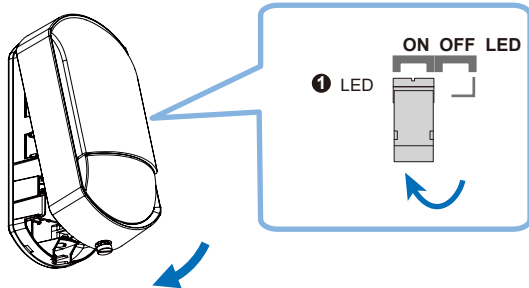
2-3. PEU settings



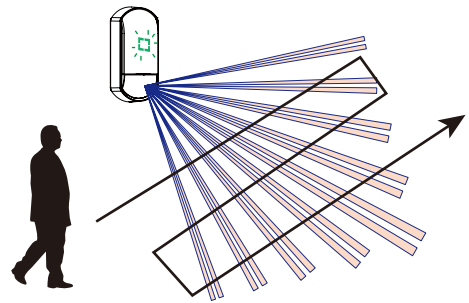
3 Checking

3-1. Walk test

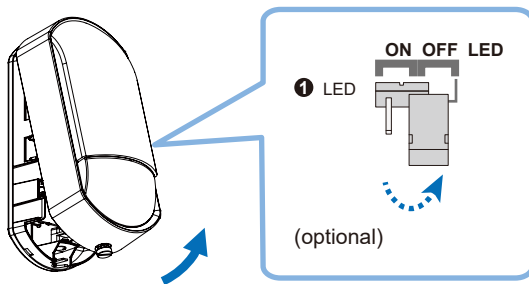
1 Confirm that the LED pin is "ON", then close the cover.



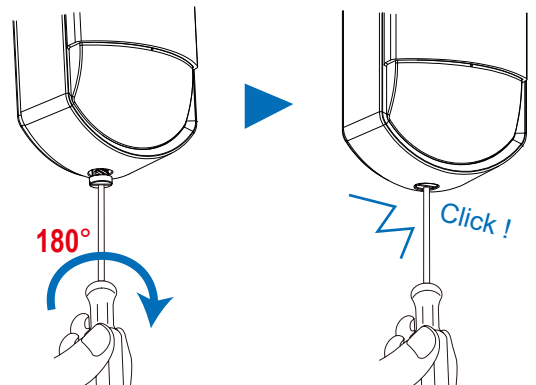
2 Walk in the detection area to check the detecting performance via LED indication.



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.

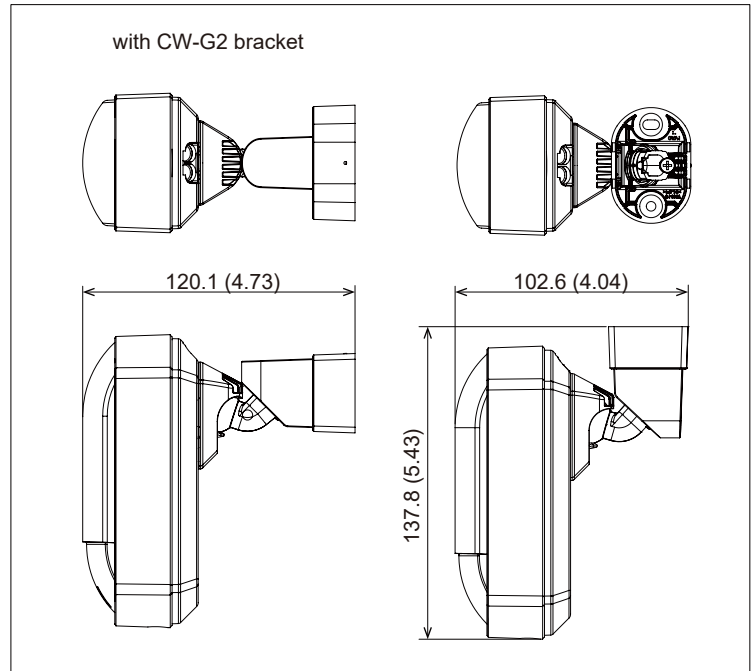
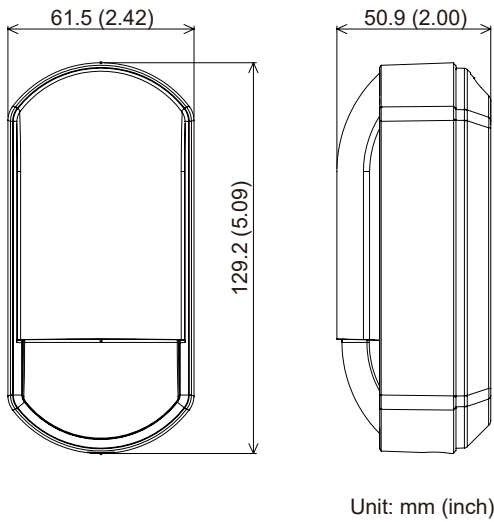
- Specifications

Model		FLX-P-ST	FLX-P-DT-X5/-X8/-X9
Installation			
Detection method		Passive infrared	Passive infrared and Microwave
Coverage		Wide: 15 m (50 ft.) 85°/ Narrow: 24 m (80 ft.) 5° (No MW detection at "Narrow" setting)	
Detection zones		Wide: 78 zones/ Narrow: 18 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	11 mA (normal) 14 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		Terminal: open = OFF 0 V = ON	
Environmental			
Operation temperature		-20°C to +50°C (-4°F to +122°F)	-20°C to +45°C (-4°F to +113°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. 95 g (3.35 oz) (with Bracket : Approx. 125 g (4.41 oz))	Approx. 110 g (3.88 oz) (with Bracket : Approx. 140 g (4.94 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.

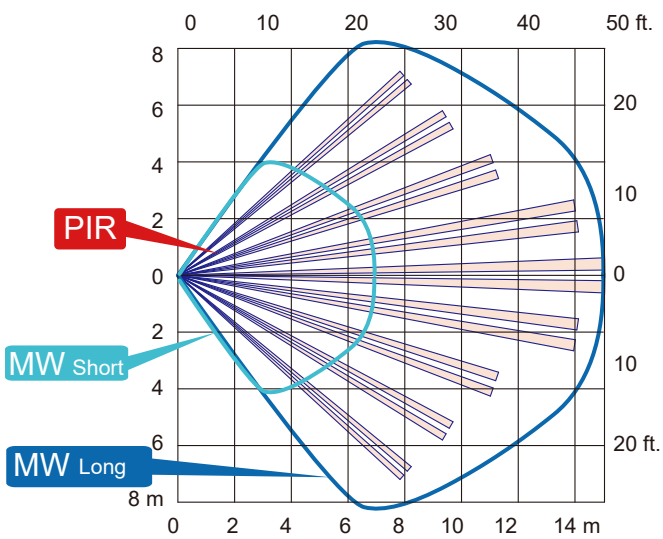
UL * Shall be powered via a UL listed burglar alarm class 2 output power limited power supply that has a min standby power of 4 hrs.

- Dimensions

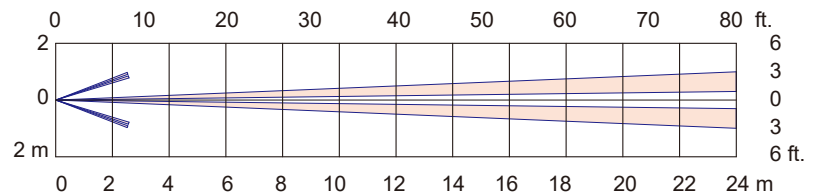


- Detection area

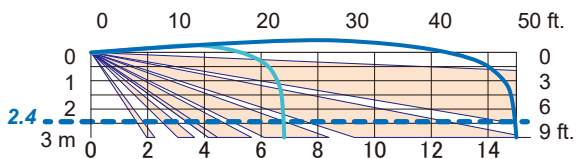
Wide - Top view -



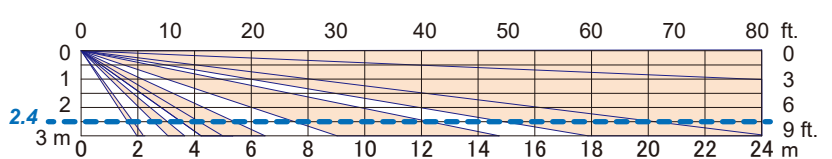
Narrow - Top view -



Wide - Side view -



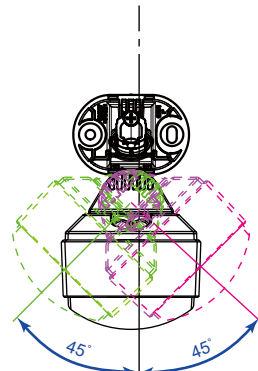
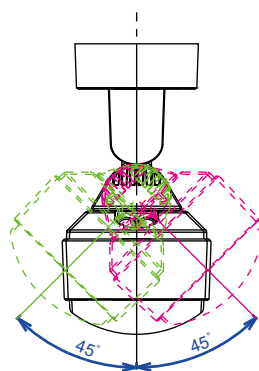
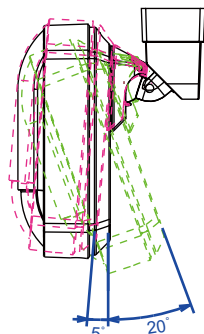
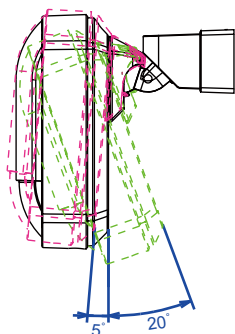
Narrow - Side view -



NOTE

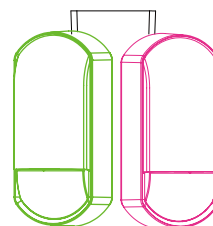
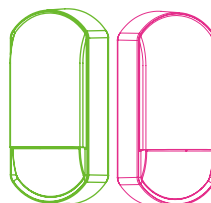
- The * 2.4 m dotted line indicates the recommended mounting height.
- When "Narrow" is selected at the jumper pin, MW detection will be stopped.

- Angle adjustment with bracket CW-G2



NOTE

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



- Compliance

RE Directive 2014/53/EU

- OPTEX declares that FLX-P-DT-X5, FLX-P-DT-X8, and FLX-P-DT-X9 comply with RE Directive 2014/53/EU. Doc documents can be found on our website; **www.optex.net**
- Microwave emission Frequency and Power

FLX-P-DT-X5:	10.525 GHz	15.78 mW e.i.r.p
FLX-P-DT-X8:	10.587 GHz	8.93 mW e.i.r.p
FLX-P-DT-X9:	9.425 GHz	14.50 mW e.i.r.p
- The following list indicates the areas of intended use of the equipment and any known restrictions.
For countries not included in this list, please consult the responsible Spectrum Management Agency.

10.525 GHz:	Belgium, Denmark, Finland, Germany, Greece, Italy, Luxembourg, The Netherlands, Spain, Sweden, Iceland, Norway, Switzerland
10.587 GHz:	Belgium, France, Germany, Ireland, Luxembourg, The Netherlands, United Kingdom
9.425 GHz:	Austria, Czechia, Estonia, Germany, Slovakia, Turkey, Russia
- FLX-P-DT-X5, FLX-P-DT-X8 and FLX-P-DT-X9 also comply with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

UK Radio Equipment Regulations 2017

- FLX-P-DT-X8 also comply with UK radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
- Hereby, OPTEX declares that the radio equipment type FLX-P-DT-X8 is in compliance with Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address:**www.optex.net**

FCC/IC

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device

- EN 50131-1 Grades and Environmental Class; Security Grade 2, Environmental Class II
Applied Standards; EN 50131-2-2 (FLX-P-ST), EN 50131-2-4 (FLX-P-DT-X5 and FLX-P-DT-X8)
Tested and certified by Kiwa
- Iarm klass 2, miljö klass II, SSF 1014
- PD6662:2017
- UL/c-UL listed (FLX-P-ST and FLX-P-DT-X5)

■ EU & UK contact information



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



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