



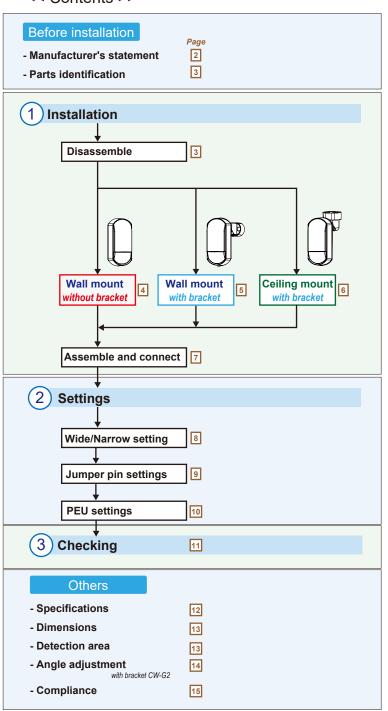
INSTALLATION INSTRUCTIONS



	Wide/Narrow area Flip lens	PIR	Microwave
FLX-P-ST	√	√	-
FLX-P-DT-X5 *1	✓	√	√ (10.525GHz)
FLX-P-DT-X8 *2	✓	√	√ (10.587GHz)
FLX-P-DT-X9 *3	√	√	√ (9.425GHz)

- *1 Not certified to INCERT
- *2 Not certified to UL
- *3 Not certified to UL, INCERT and EN 50131

<< 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

↑ Warning

↑ 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.

Special attention is required to the section of this symbol.





Destroy /Modify



Outdoor installation



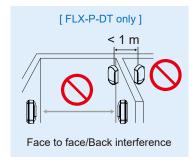
Wetting with water

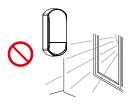


Detection through glass



Partial/complete obscuration of the detection area.

















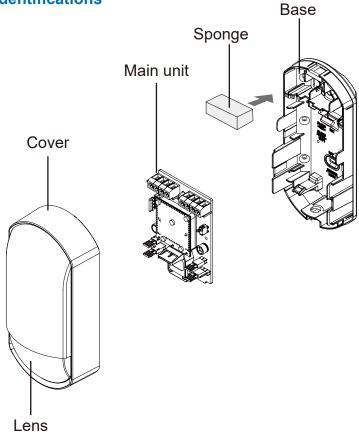


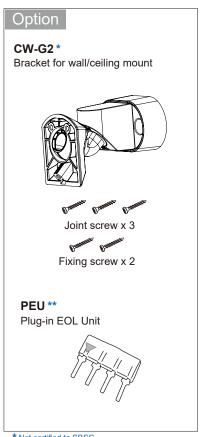




Follow to the Regulations

- Parts identifications



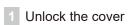


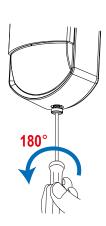
- * Not certified to SBSC.

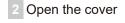
 ** Not evaluated by UL

Installation

1-1. Disassemble

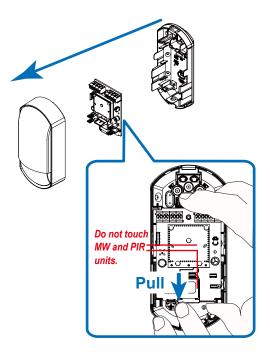






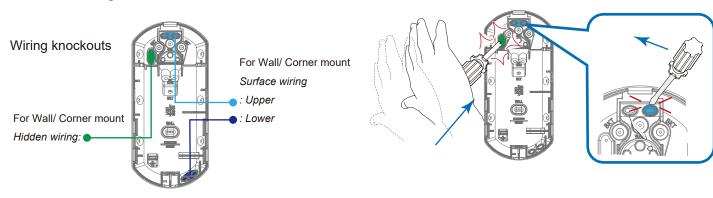


Remove the main unit

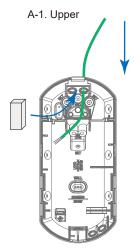


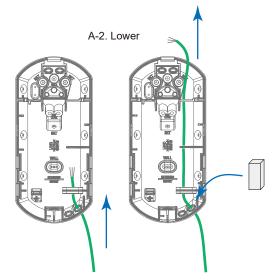
1 Wire through the base

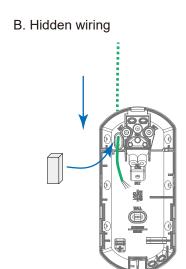
How to break the knockouts





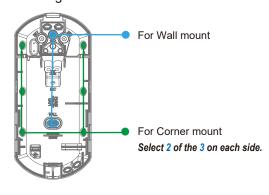






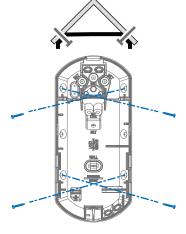
2 Mount the base

Mounting holes



a. Wall mount

b. Corner mount

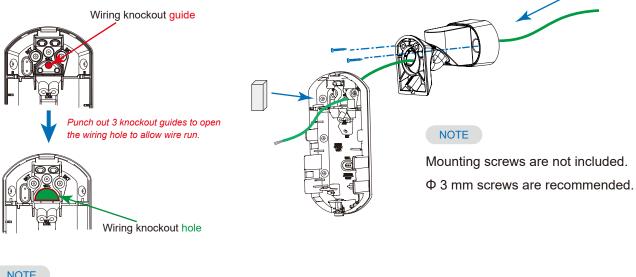


NOTE

Mounting screws are not included.

Φ 3 mm screws are recommended.

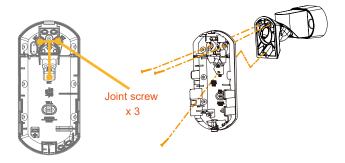
1 Wire and mount on the wall



NOTE

See page 4 for how to break the knockouts.

Join the base on the bracket

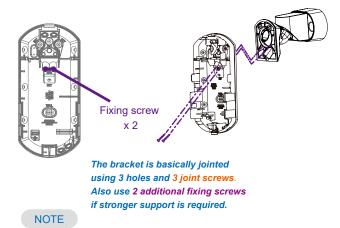


NOTE

Adjust the detection direction while jointing. Confirming with a walk test is required.

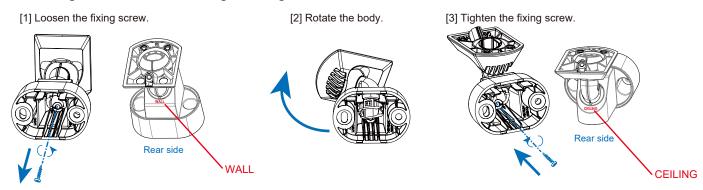
--> Refer to "3-1. Walk test"

Fix the base with the fixing screws (optional)

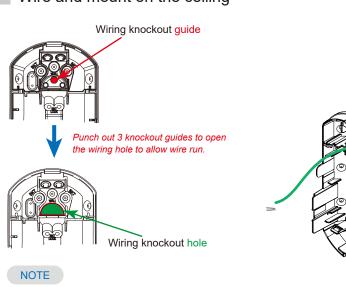


2 fixing screws are required for the Grade 2 and higher grade installation.

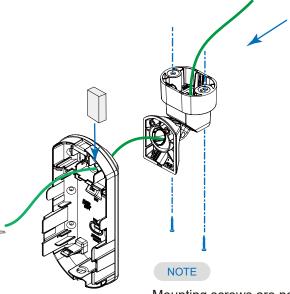
How to change the bracket to the ceiling mounting



1 Wire and mount on the ceiling



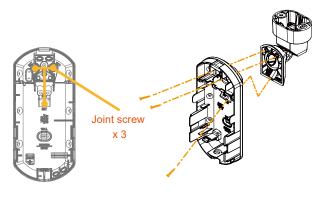
See page 4 for how to break the knockouts.



Mounting screws are not included.

Φ 3 mm screws are recommended.

2 Join the base on the bracket

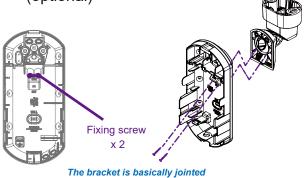


NOTE

Adjust the detection direction while jointing. Confirming with a walk test is required.

--> Refer to "3-1. Walk test"

Fix the base with the fixing screws (optional)



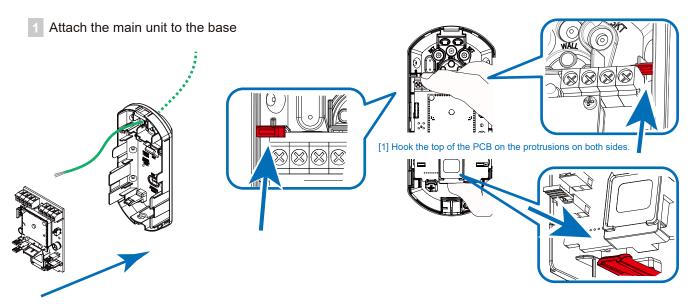
using 3 holes and 3 joint screws.

Also use 2 additional fixing screws if stronger support is required.

NOTE

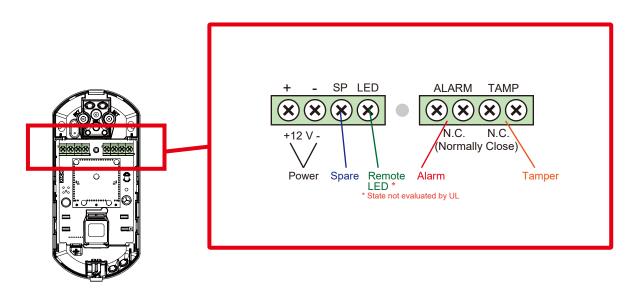
2 fixing screws are required for the Grade 2 and higher grade installation.

1-5. Assemble and connect



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

2 Connect wires to the terminal



Power cable length

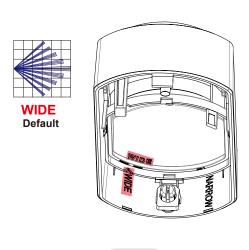
The power cable should be limited to the following length.

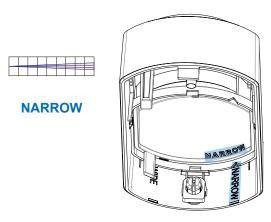
FLX-P-ST FLX-P-DT WIRE GAUGE WIRE GAUGE 12 V DC 14 V DC 14 V DC 12 V DC AWG 22 AWG 22 520 m 1,130 m 410 m 890 m (0.33 mm^2) (0.33 mm^2) (1,710 ft.) (3, 718 ft.) (1,350 ft.) (2,920 ft.) AWG 20 820 m 1,790 m AWG 20 650 m 1,400 m (0.52 mm^2) (0.52 mm^2) (2,690 ft.) (5,870 ft.) (2,130 ft.) (4,590 ft.) AWG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

2-1. Wide/Narrow setting

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

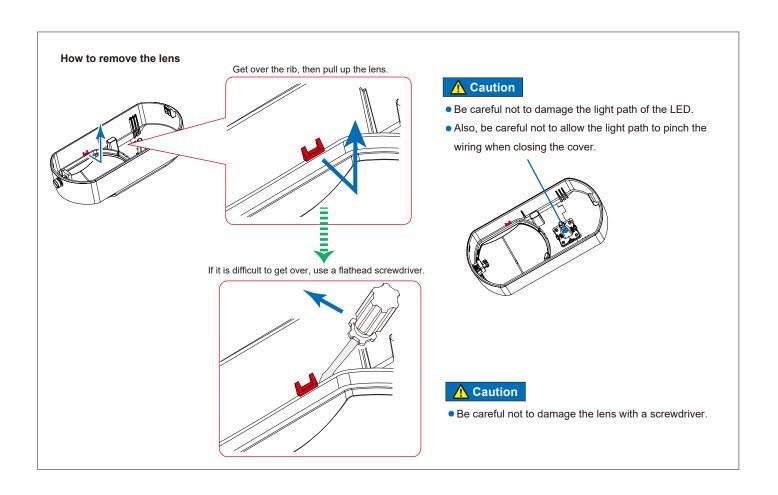


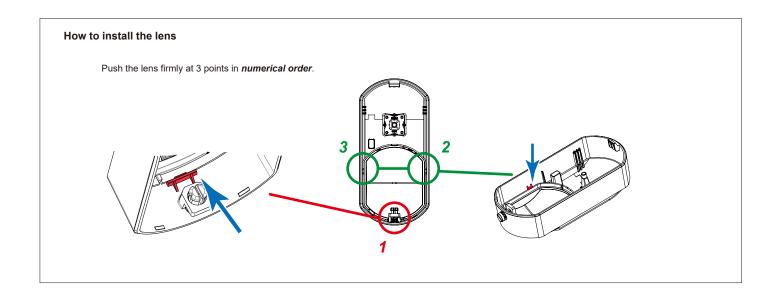




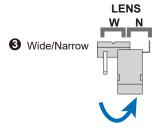
NOTE

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





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



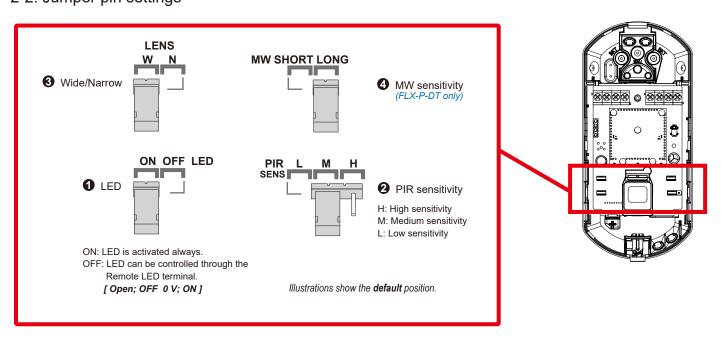
↑ Caution

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

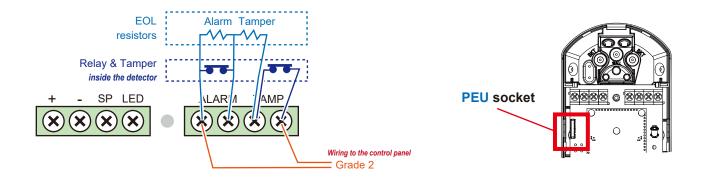
NOTE

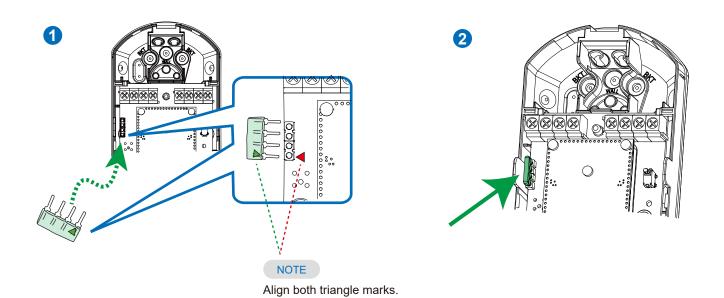
- Default setting is "Wide".
- When "Narrow" is selected, MW detection will be disabled.

2-2. Jumper pin settings



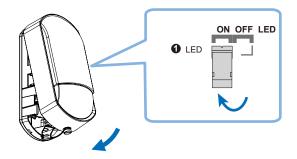
2-3. PEU settings



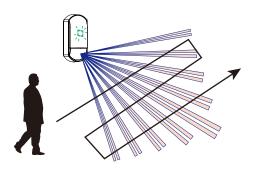


3-1. Walk test

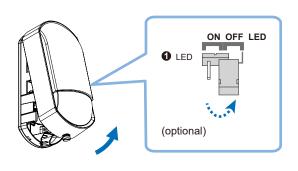
1 Confirm that the LED pin is "ON", then close the cover.



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.



NOTE

Conduct a walk test at least once a year.

180°

4 Lock the cover

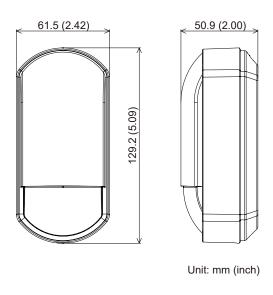
- Specifications

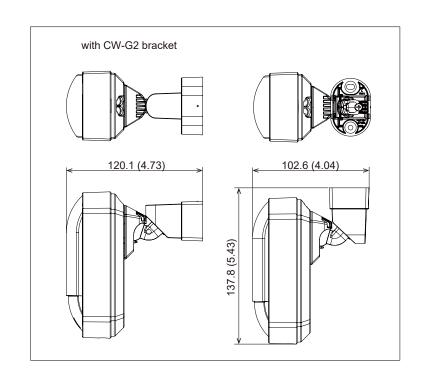
Model		FLX-P-ST	FLX-P-DT-X5/-X8/-X9			
Installation						
Detection method		Passive infrared	Passive infrared and Microwave			
Coverage		Wide: 15 m (50 ft.) 85°/ Narrow: 24 m (80 ft.) 5° (No MW detection at "Narrow" setting)				
Detection zones		Wide: 78 zones/ Narrow: 18 zones				
Mounting height		2.0 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.

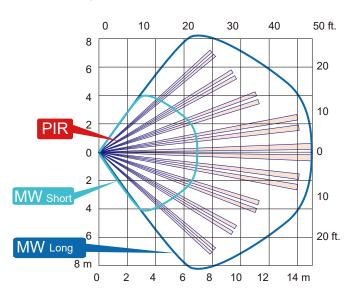
- Dimensions



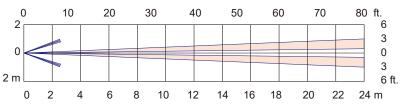


- Detection area

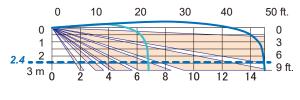
Wide - Top view -



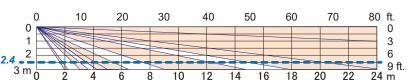
Narrow - Top view -



Wide - Side view -



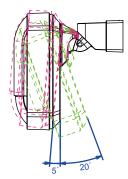
Narrow - Side view -

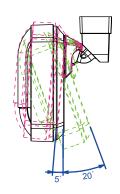


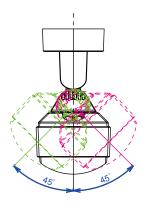
NOTE

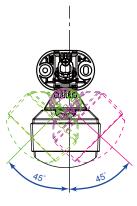
- The * 2.4 m dotted line indicates the recommended mounting height.
- When "Narrow" is selected at the jumper pin, MW detection will be stopped.

- 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 Telefication
- larm 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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