

No.59-3169-0 2302-22

INSTALLATION INSTRUCTIONS



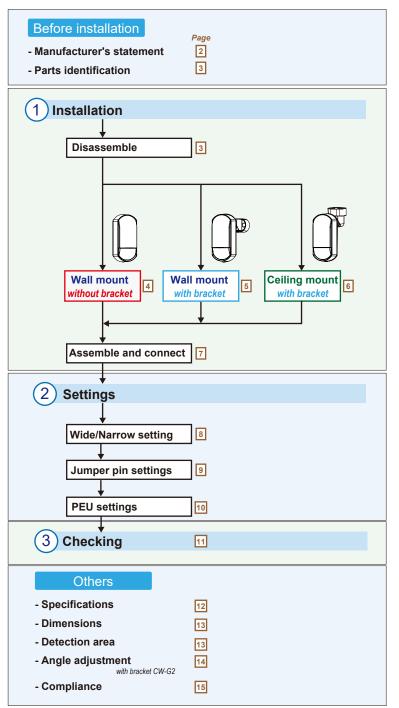
Flexible Range Indoor Detector



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

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

<< Contents >>



1

- Manufacturer's statement



Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.



🔥 Warning

Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.



NOTE

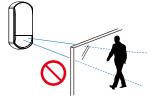
Check mark indicates recommendation.

Nix sign indicates prohibition.

Meaning

Special attention is required to the section of this symbol.





Detection through glass

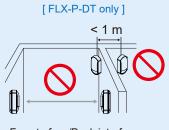




Partial/complete obscuration of the detection area.



Wetting with water







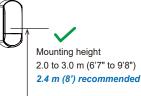












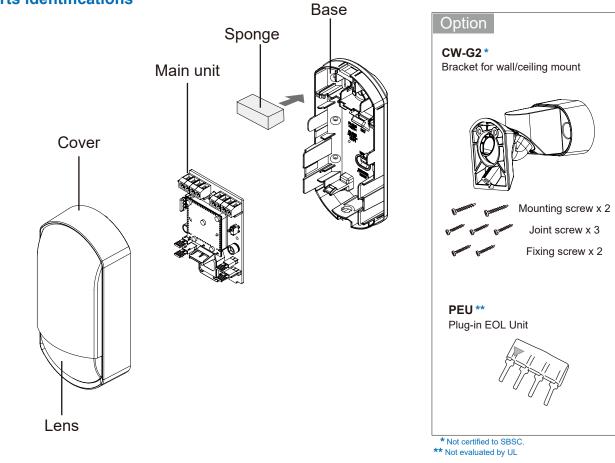




7777

777

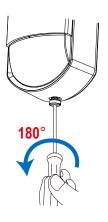
- Parts identifications



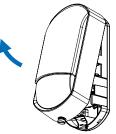
1 Installation

1-1. Disassemble

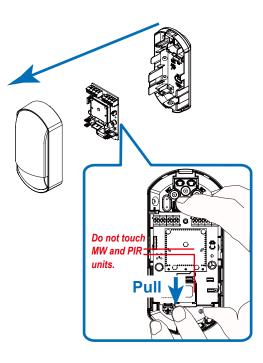
1 Unlock the cover



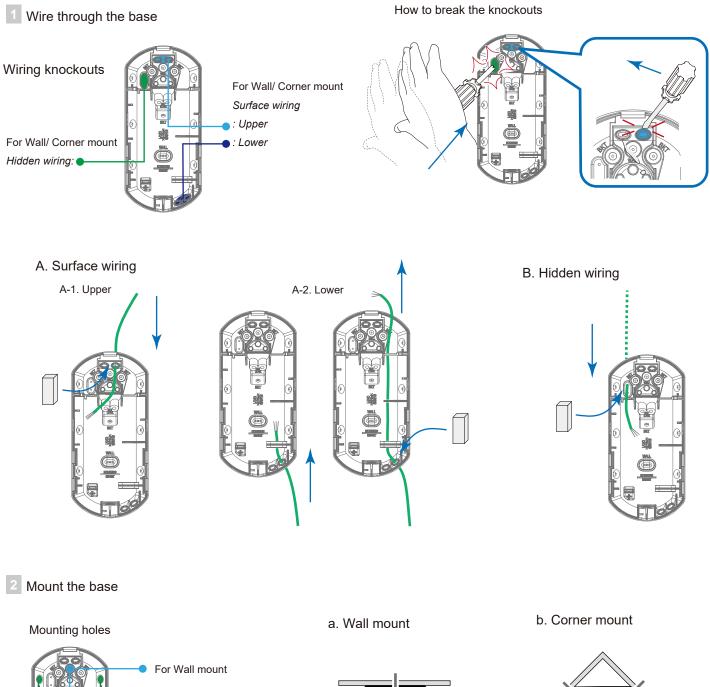
2 Open the cover

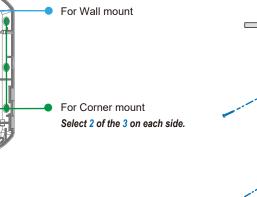


3 Remove the main unit



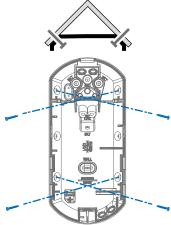
1-2. Wall mount without bracket





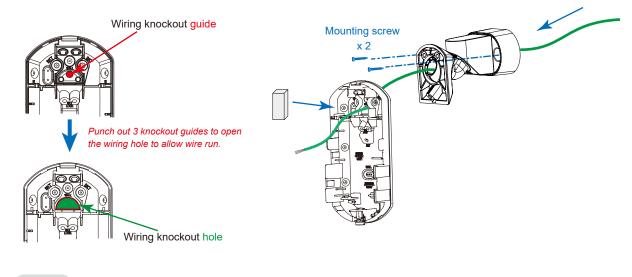
Mounting screws are not included. Φ 3 mm screws are recommended.

NOTE





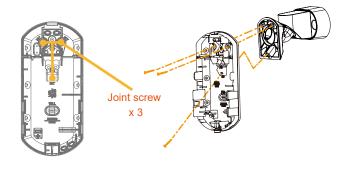
Wire and mount on the wall



NOTE

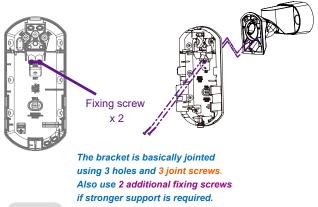
See page 4 for how to break the knockouts.

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" Fix the base with the fixing screws (optional)



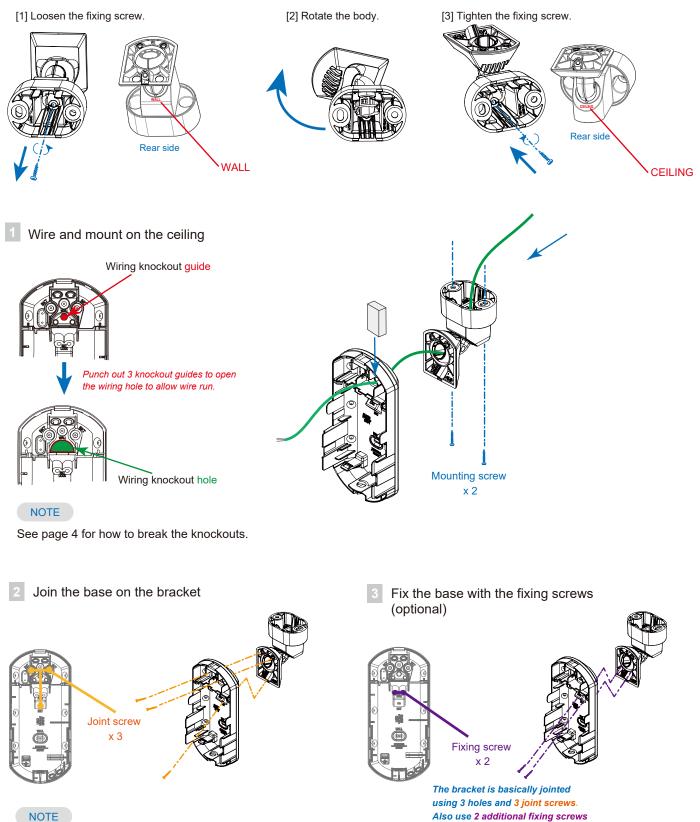
NOTE

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

* Not evaluated by UL.



How to change the bracket to the ceiling mounting



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

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

if stronger support is required.

* Not evaluated by UL.

NOTE

1-5. Assemble and connect

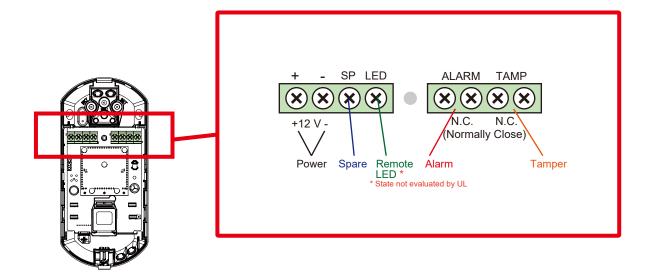
Attach the main unit to the base

Image: Attach the main unit to the base

Image:

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

2 Connect wires to the terminal



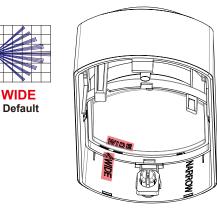
Power cable length

The power cable should be limited to the following length.

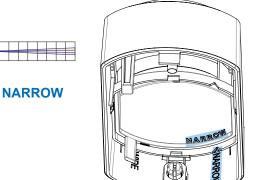
FLX-P-ST			FLX-P-DT		
WIRE GAUGE	12 V DC	14 V DC	WIRE GAUGE	12 V DC	14 V DC
AWG 22	520 m	1,130 m	AWG 22	410 m	890 m
(0.33 mm ²)	(1,710 ft.)	(3, 718 ft.)	(0.33 mm ²)	(1,350 ft.)	(2,920 ft.)
AWG 20	820 m	1,790 m	AWG 20	650 m	1,400 m
(0.52 mm ²)	(2,690 ft.)	(5,870 ft.)	(0.52 mm ²)	(2,130 ft.)	(4,590 ft.)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

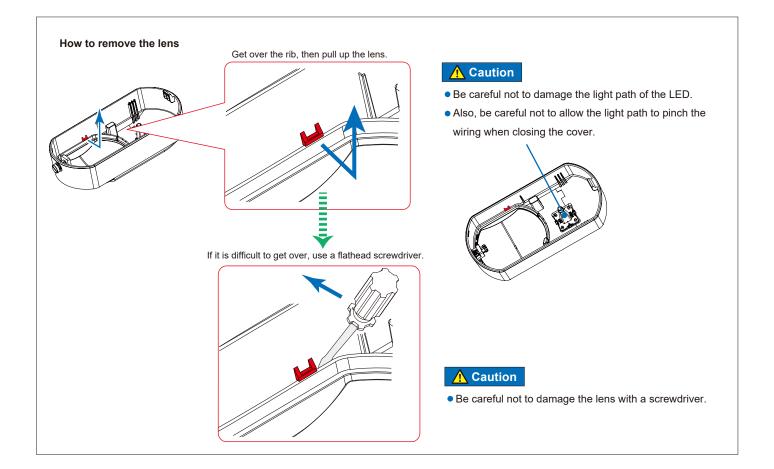


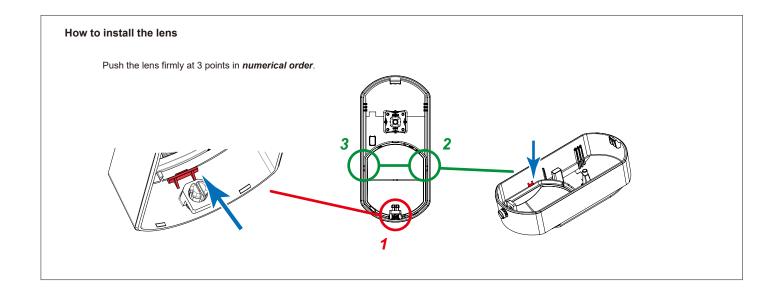
Go to 2-2 on 9 to skip 2-1 when using the default "Wide" setting.



NOTE

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







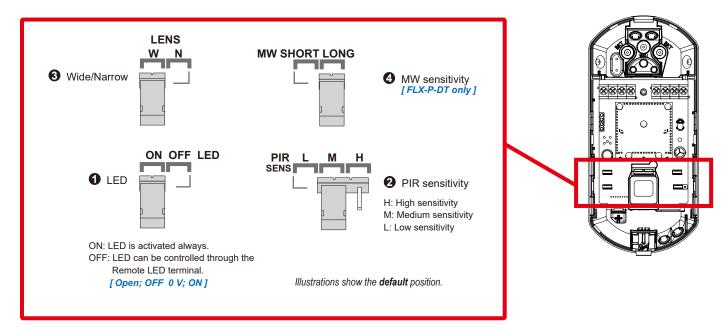
🔥 Caution

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

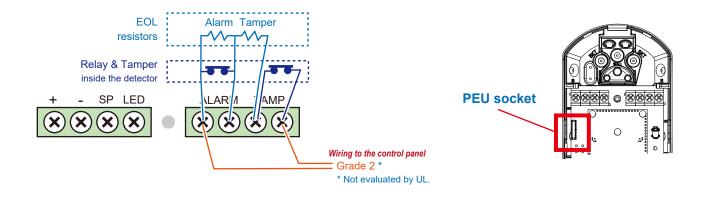
NOTE

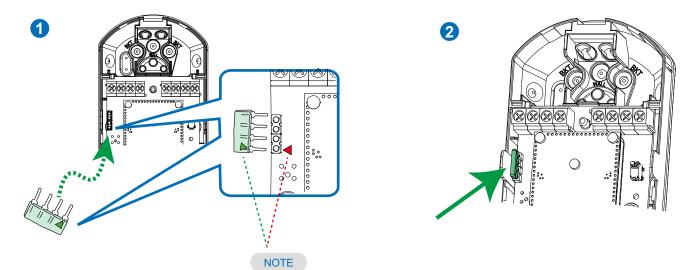
- Default setting is "Wide".
- When "Narrow" is selected, MW detection will be disabled.

2-2. Jumper pin settings

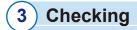


2-3. PEU settings



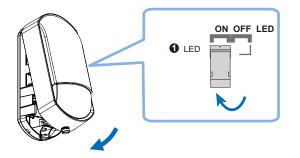


Align both triangle marks.

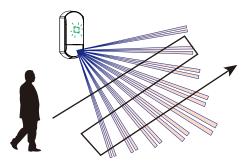


3-1. Walk test

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

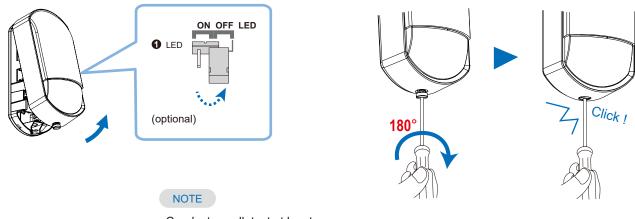


2 Walk in the detection area to check the detecting performance via LED indication.



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

Lock the cover



Conduct a walk test at least once a year.

- Specifications

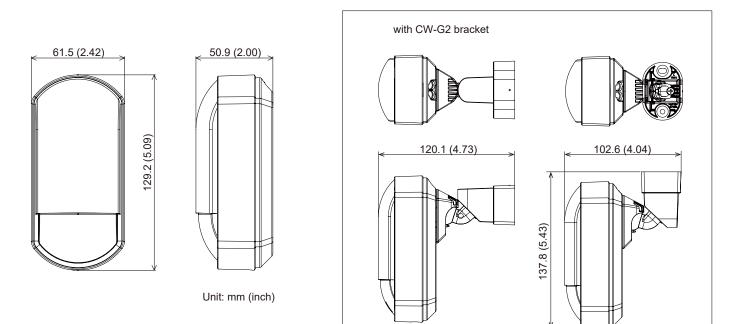
Model		FLX-P-ST	FLX-P-DT-X5/-X8/-X9			
Installation						
Detection method		Passive infrared	Passive infrared and Microwave			
Coverage		Wide: 15 m (50 ft.) 85°/ Narrow: 24 m (80 ft.) 5° (No MW detection at "Narrow" setting)				
Detection zones		Wide: 78 zones/ Narrow: 18 zones				
Mounting height		2.0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

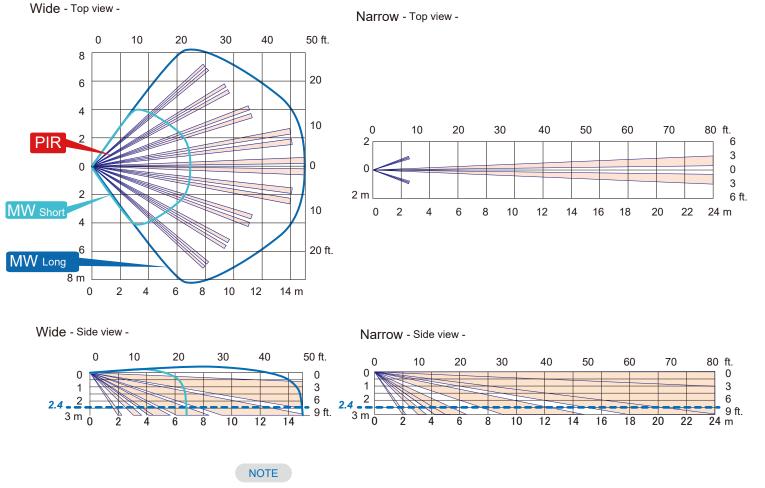
• These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

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



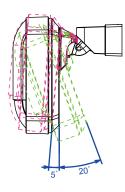
- Detection area

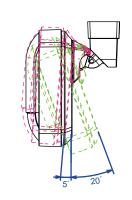


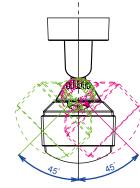
• The * 2.4 m dotted line indicates the recommended mounting height.

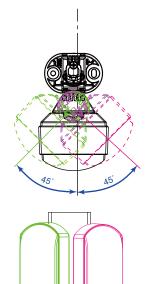
• When "Narrow" is selected at the jumper pin, MW detection will be stopped.

- Angle adjustment with bracket CW-G2











* 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.ir.p

 FLX-P-DT-X8:
 10.587 GHz
 8.93 mW e.ir.p

 FLX-P-DT-X9:
 9.425 GHz
 14.50 mW e.ir.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
- Iarm klass 2, miljö klass II, SSF 1014
- PD6662:2017
- UL/c-UL listed (FLX-P-ST and FLX-P-DT-X5)



OPTEX INC./AMERICAS HQ (U.S.) www.optexamerica.com

OPTEX (EUROPE) LTD./EMEA HQ (U.K.) www.optex-europe.com

OPTEX SECURITY B.V. (The Netherlands) www.optex-europe.com/nl OPTEX CO., LTD. (JAPAN) www.optex.net

> OPTEX SECURITY SAS (France) www.optex-europe.com/fr

OPTEX SECURITY Sp.z o.o. (Poland) www.optex-europe.com/pl

OPTEX PINNACLE INDIA, PVT., LTD. (India) www.optexpinnacle.com OPTEX KOREA CO.,LTD. (Korea) www.optexkorea.com

OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China) www.optexchina.com

OPTEX (Thailand) CO., LTD. (Thailand) www.optex.co.th

Copyright (C) 2022 OPTEX CO., LTD.

EU & UK contact information



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