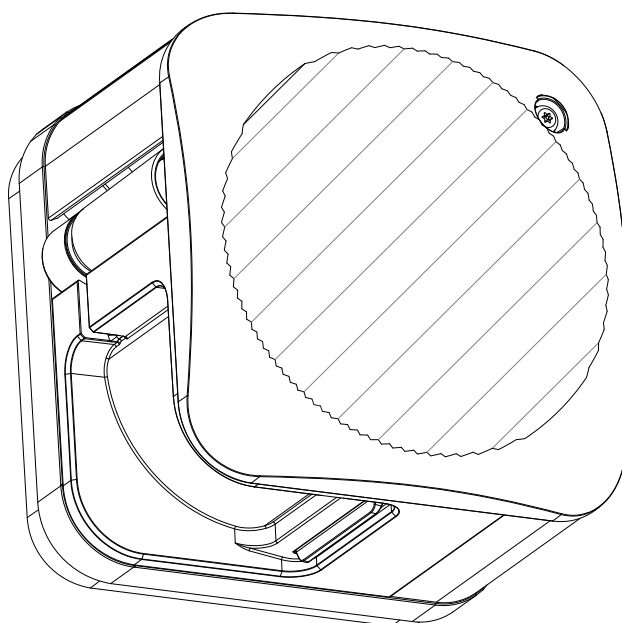
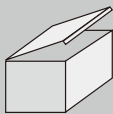


REDSKAN Lite

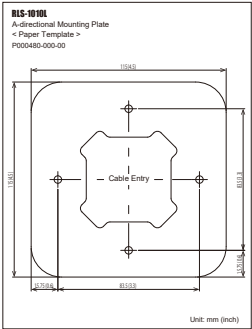
RLS-1010L



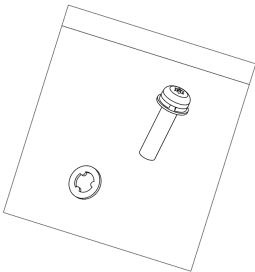
To find out useful hints, tips and information about OPTEX products and services, please visit www.optex.net



Accessories in the package



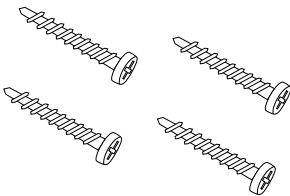
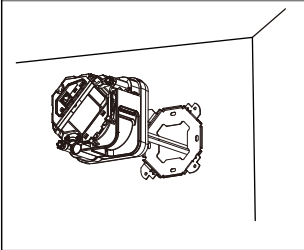
Paper template



Spare parts



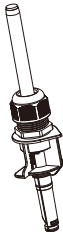
Purchase separately as necessary



L Mount Bracket
RLS-LBL

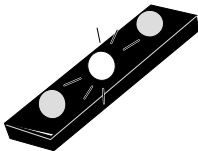
optional parts provided by OPTeX

Alignment tools

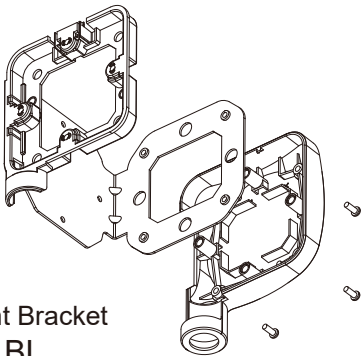
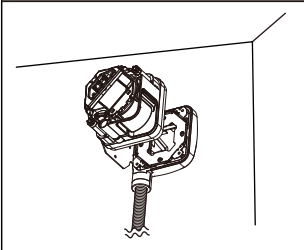


Laser Alignment Tool
RLS-LAT

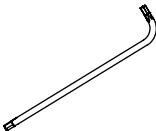
optional parts provided by OPTeX



Laser Area Checker
LAC-1

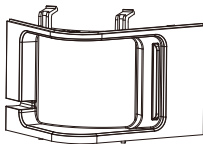


Maintenance



Size = T-20H
Included in RLS-LAT

maintenance parts provided by OPTeX



Laser Window
RLS-LWL

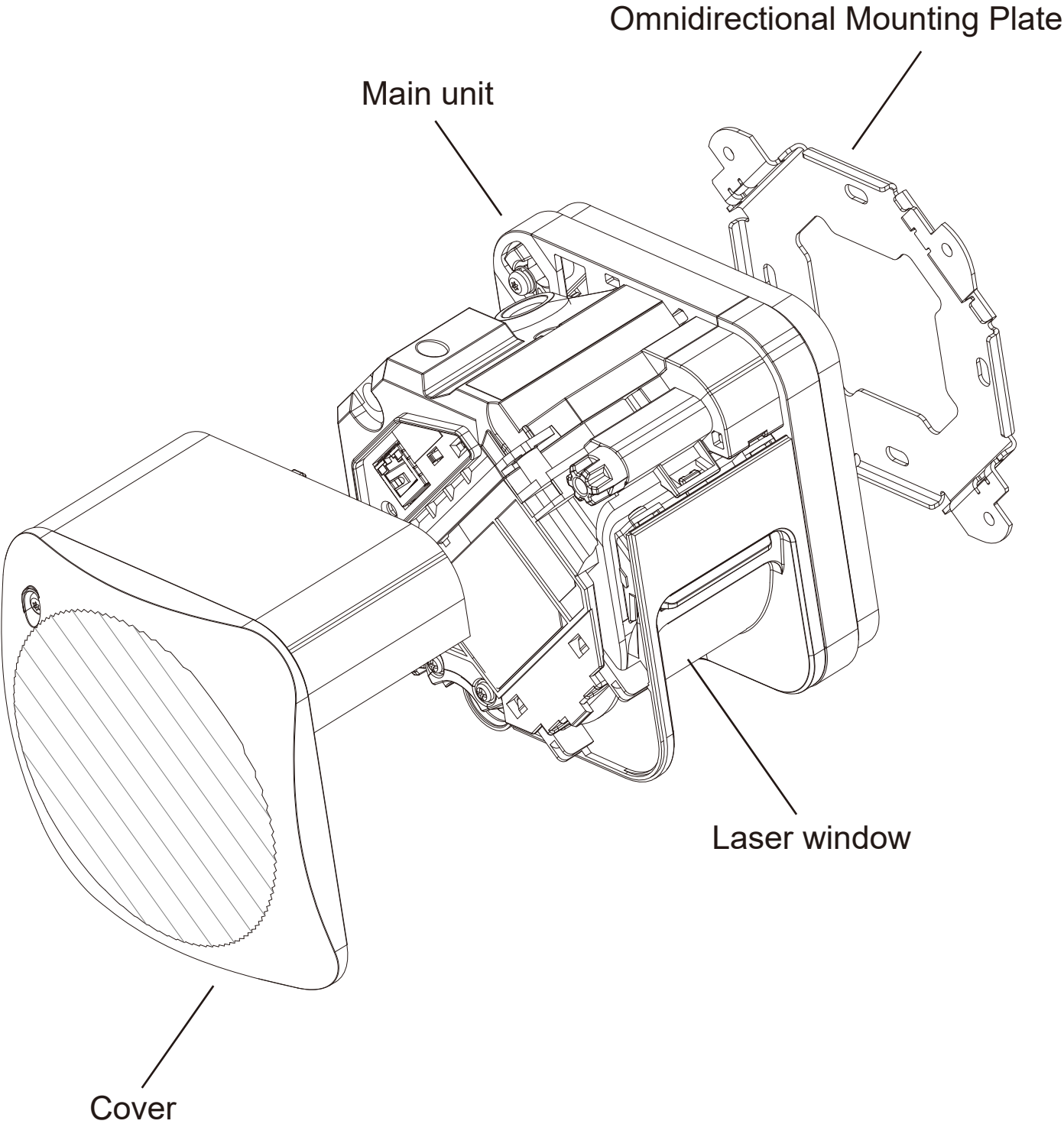
Before installation

- Manufacturer's statement

<u>Symbol</u>	<u>Meaning</u>
 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.

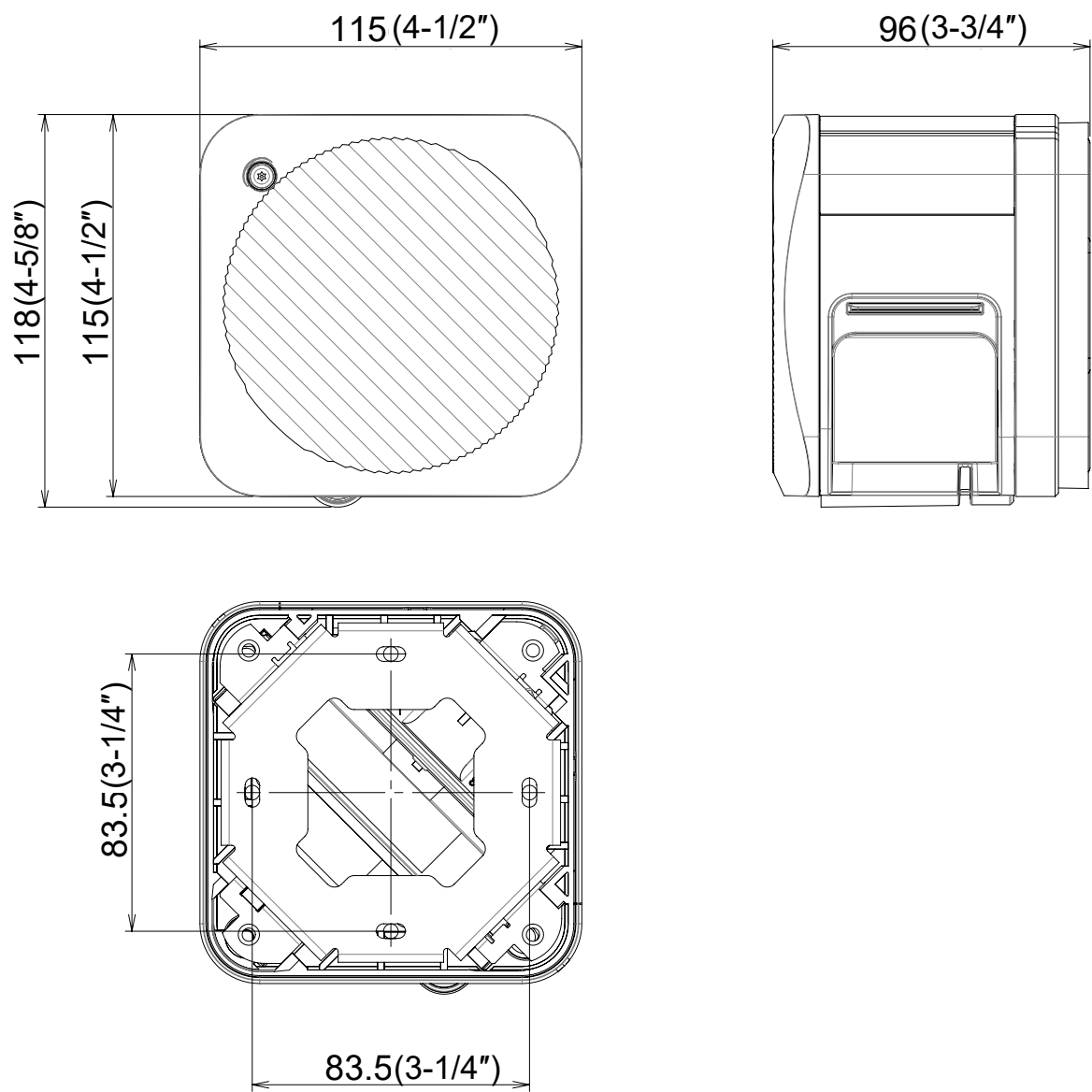
<u>Symbol</u>	<u>Meaning</u>
	This symbol indicates prohibition. The specific prohibited action is provided in and/or around the figure.
	This symbol requires an action or gives an instruction.
	This symbol indicates recommendation.

- Parts identifications



- Dimensions

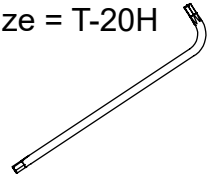
Unit : mm (inch)



1 Preparation



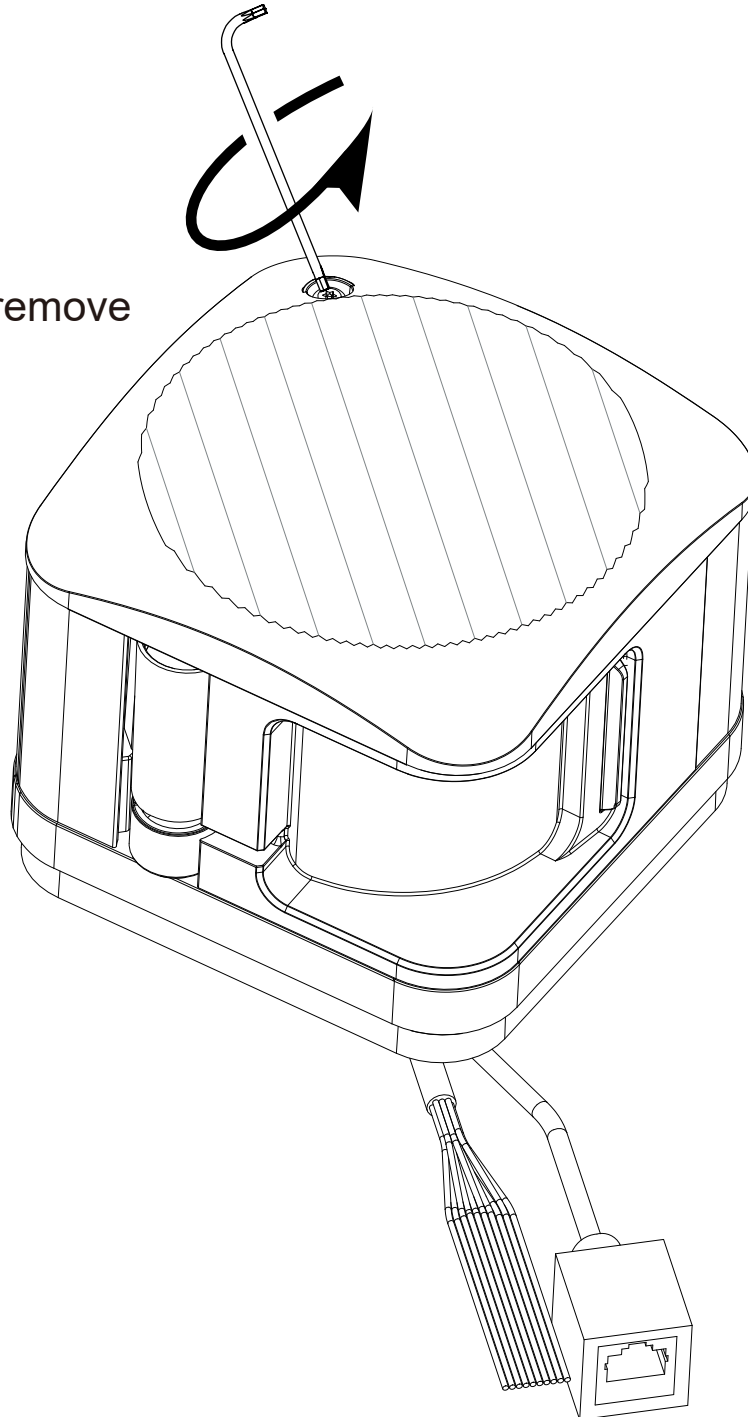
Size = T-20H



1

✓ Loosen

⊘ Do not remove

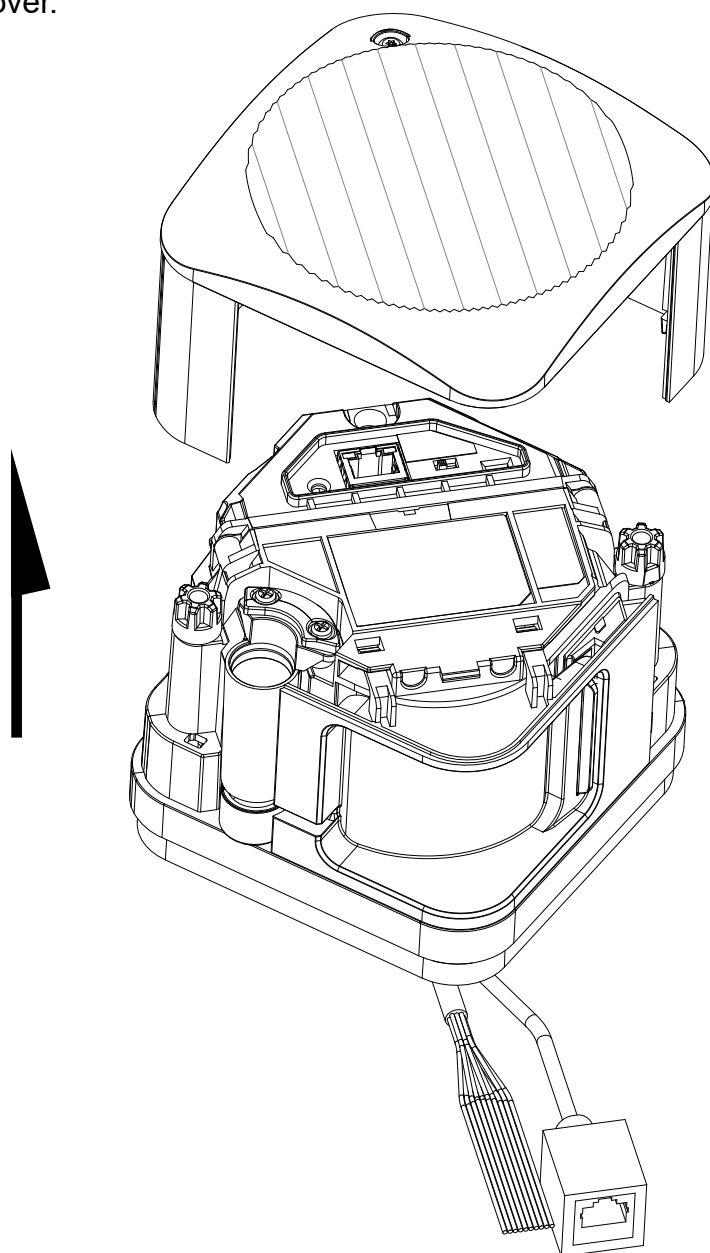


⚠ Caution

Do not touch the laser window. Minor scratches can affect performance.
Leave the protective film on until installation is complete.

2

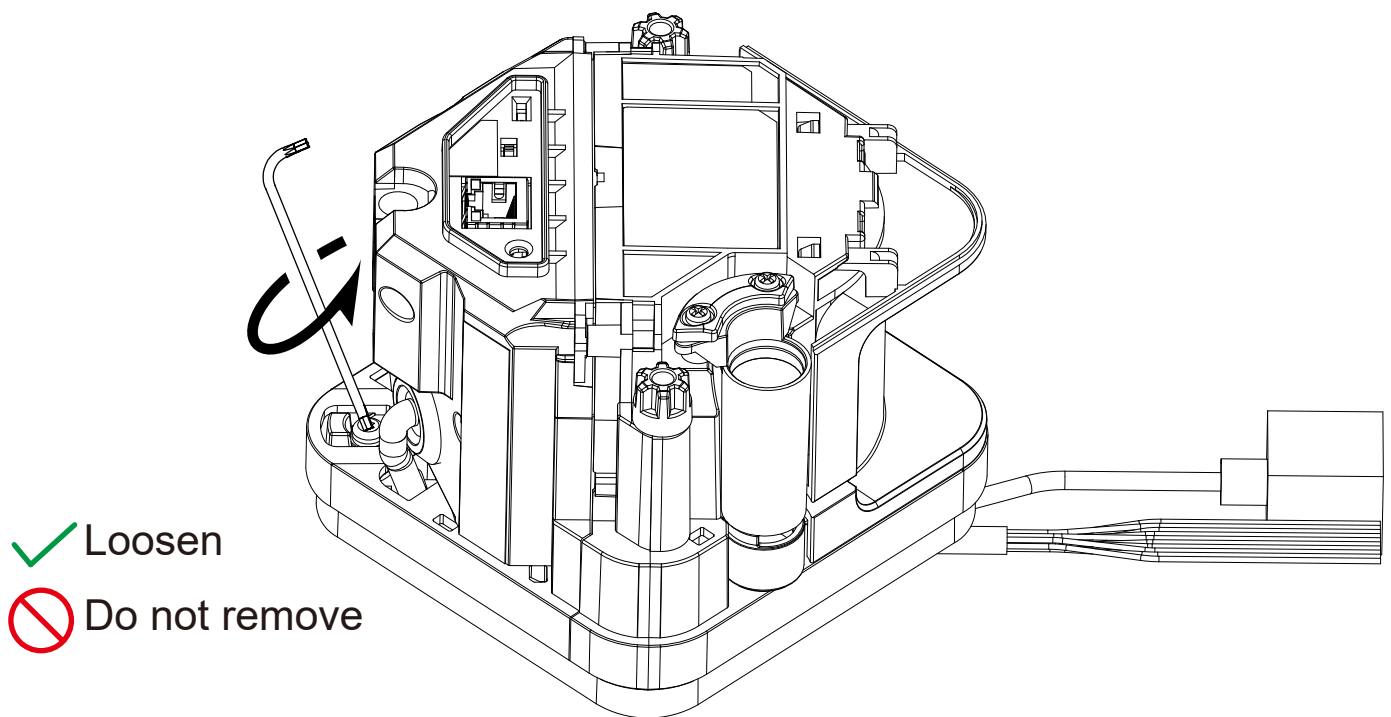
Lift up the cover.



Caution

Do not touch the laser window. Minor scratches can affect performance.
Leave the protective film on until installation is complete.

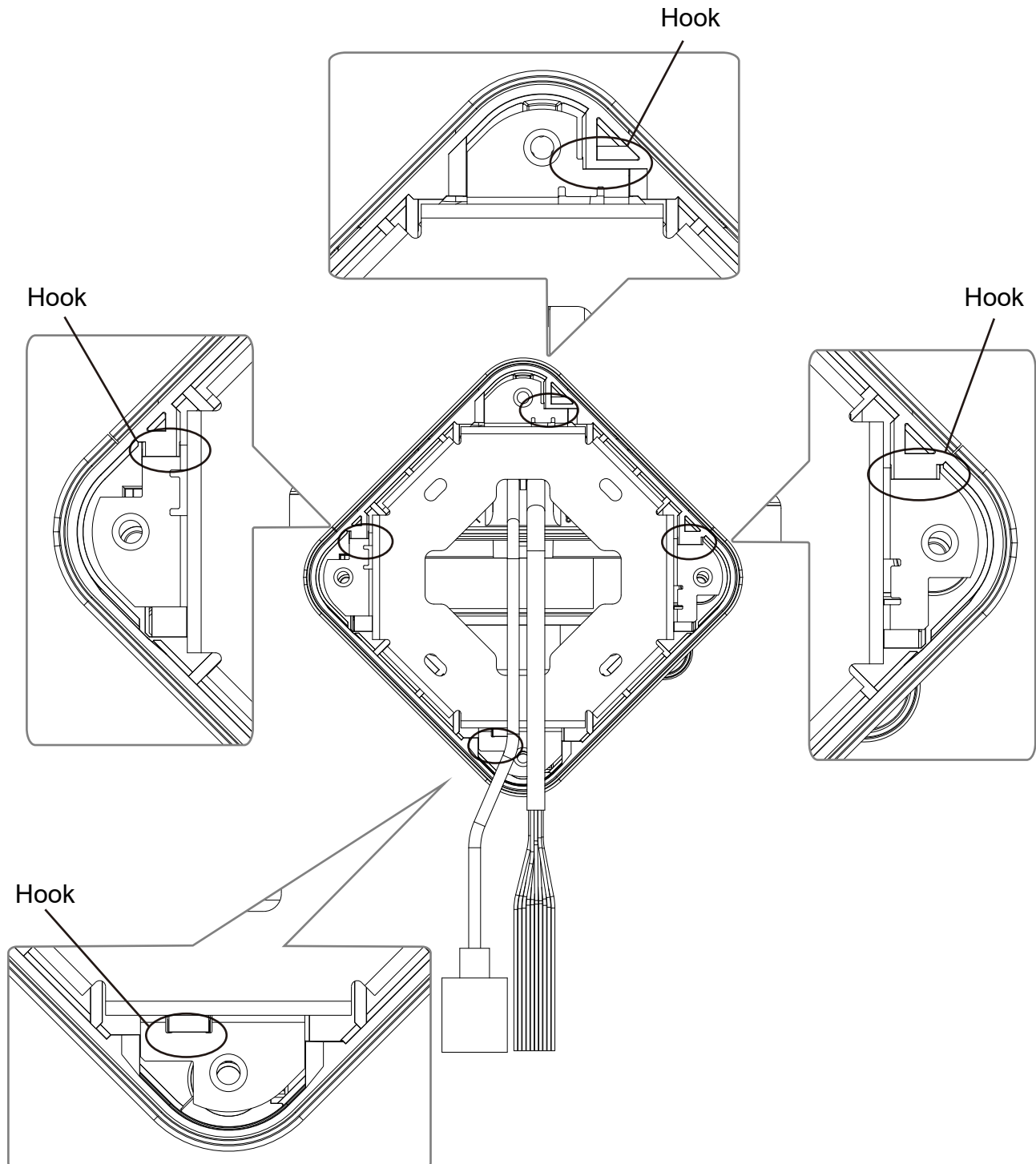
- 3 Remove omnidirectional mounting plate.



⚠ Caution

Do not touch the laser window. Minor scratches can affect performance. Leave the protective film on until installation is complete.

The back plate is secured to the main body with four hooks.

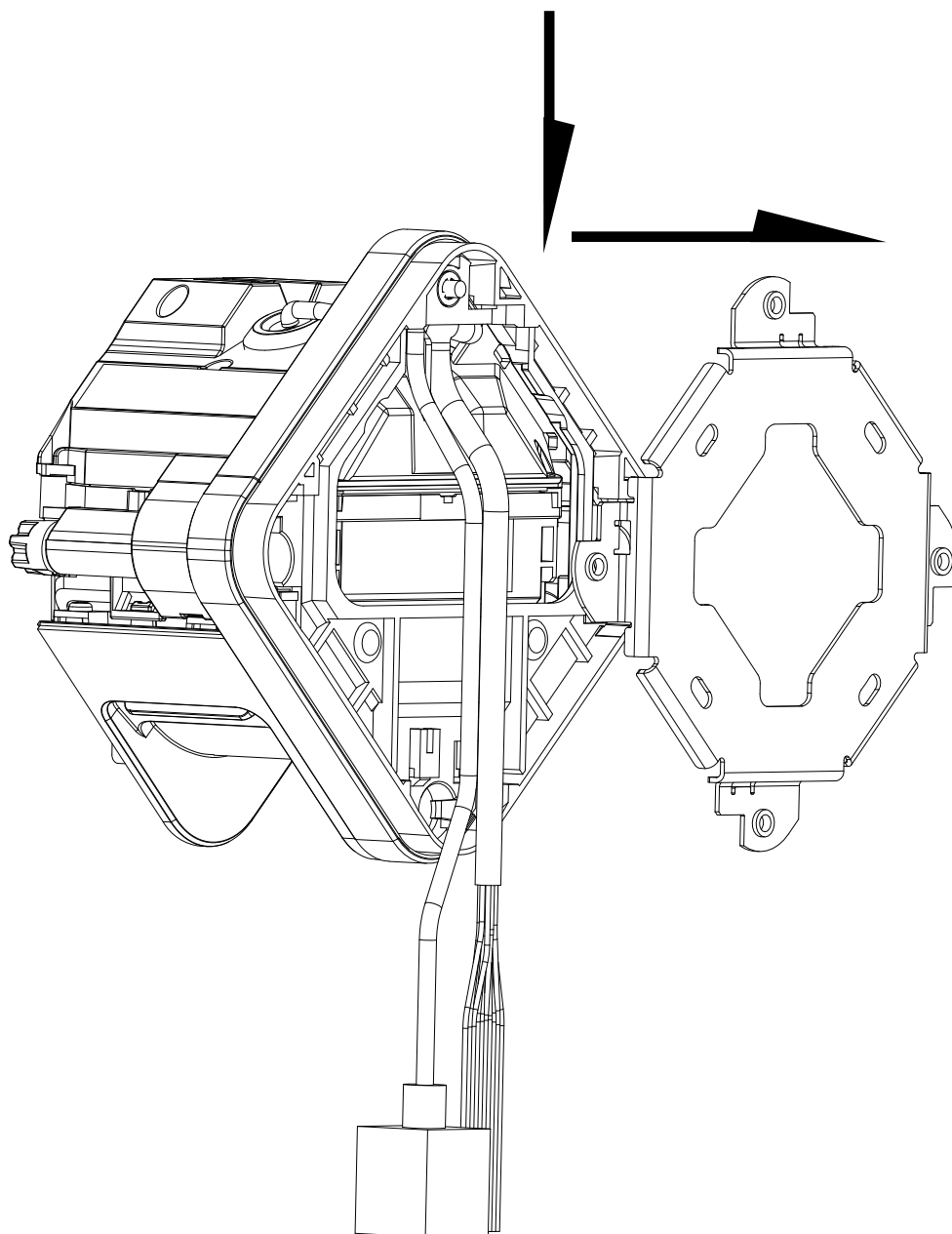


Caution

Do not touch the laser window. Minor scratches can affect performance.
Leave the protective film on until installation is complete.

4

Slide the mounting plate out to remove it.

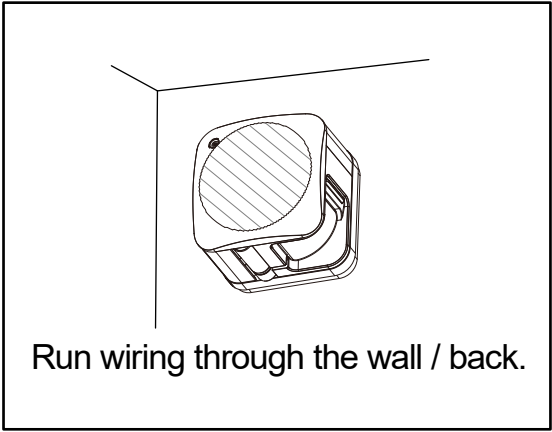


Caution

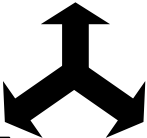
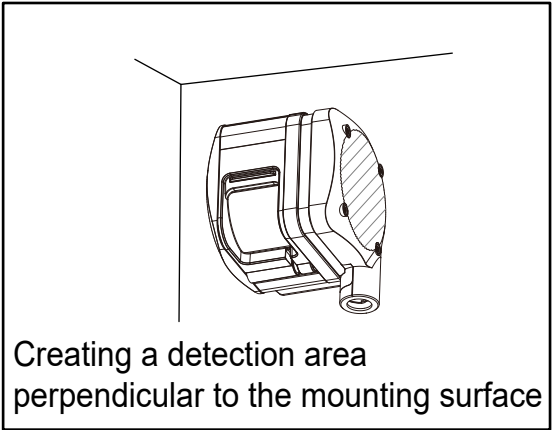
Do not touch the laser window. Minor scratches can affect performance. Leave the protective film on until installation is complete.

Select Mounting Method

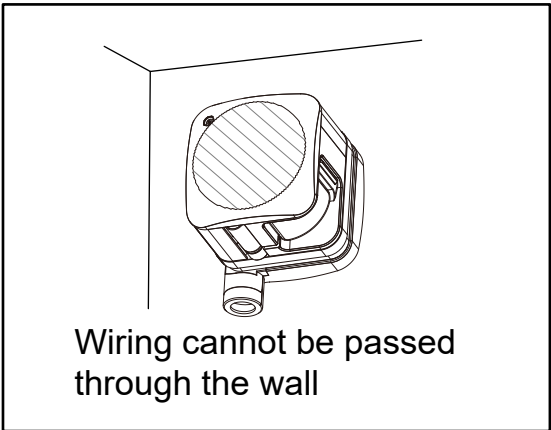
➡ Refer to the next page ¹² 



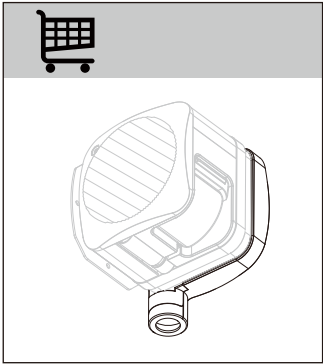
Use RLS-LBL bracket



Use RLS-LBL bracket



➡ Refer to the Installation Instruction included with the RLS-LBL 



2

Mounting



ø8.8 mm max.

(0.35")

3 mm max.
(0.12")

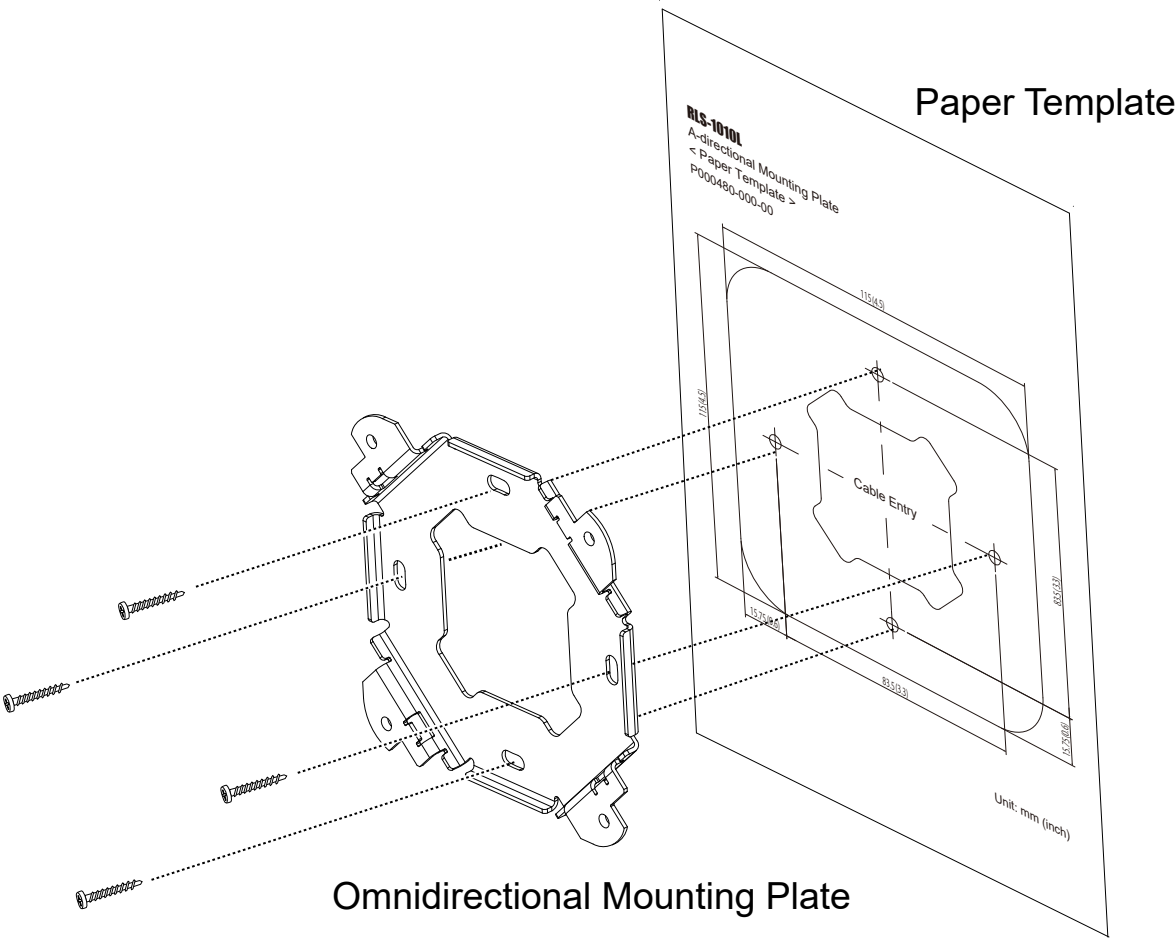


4 mm/No.8



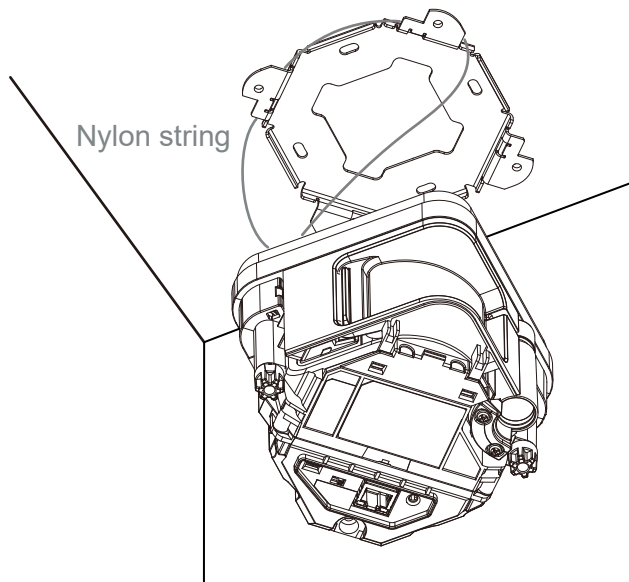
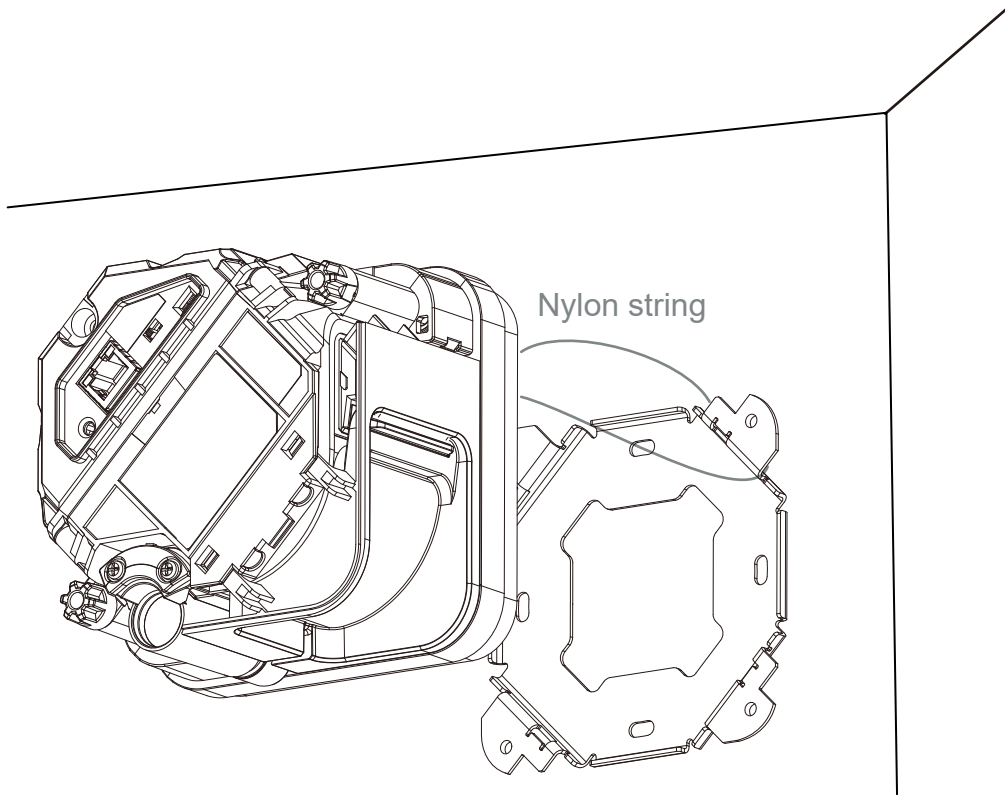
(4 x 20 mm) x 4

1



 Requires a Cable Entry hole in the wall for wiring.

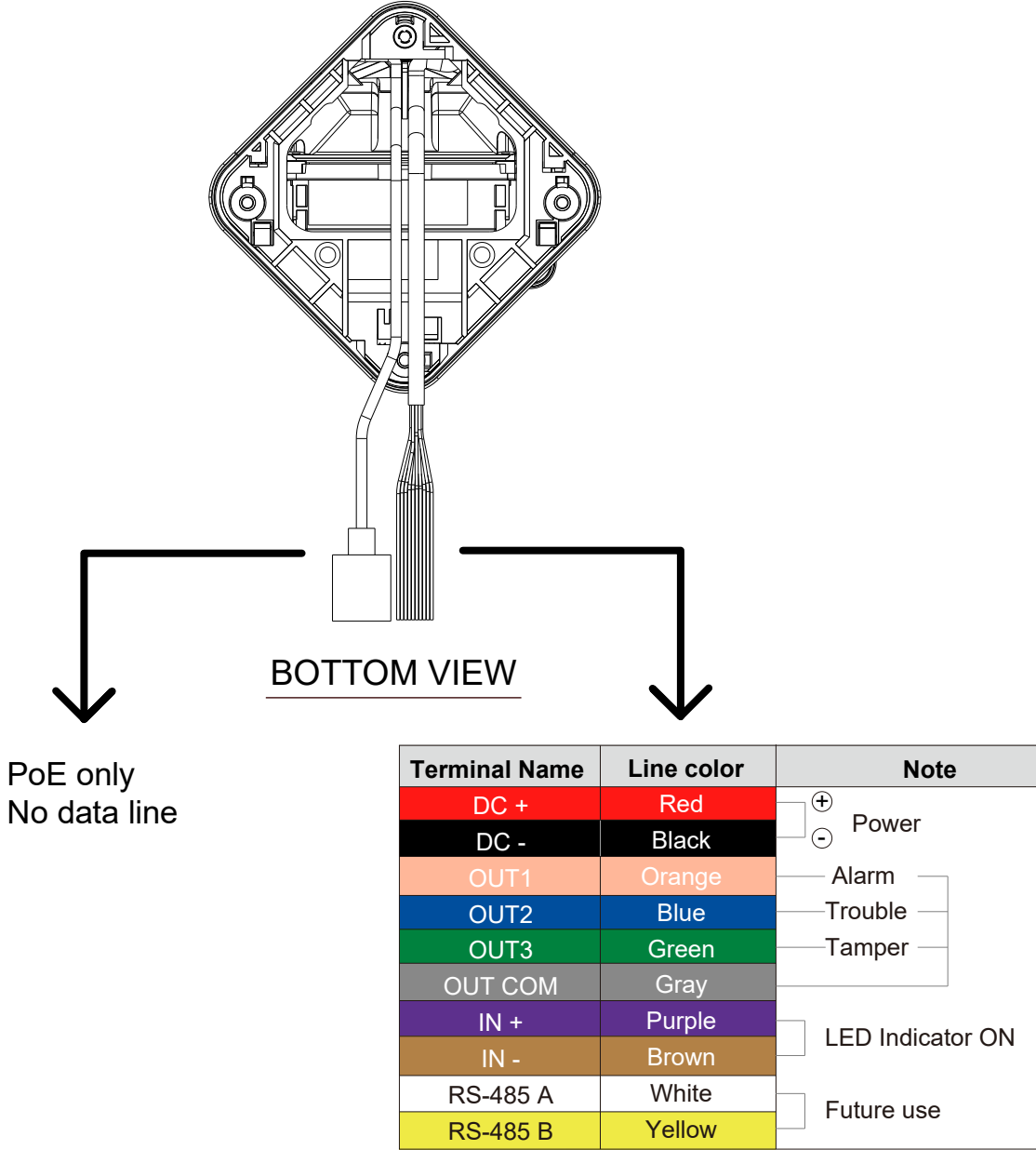
- 2 Use the nylon string to hang the main unit while connecting wires.



In case to mount the product to ceiling, hang the nylon string to two tabs of mounting plate.

Caution

Do not touch the laser window. Minor scratches can affect performance.
Leave the protective film on until installation is complete.



Strip the sheath from the wire to be used.



The length of the power wire must be less than the figures listed below.

Cable	PoE(IEEE802.3 standard)
Cat5e or above	100 (328)

m (ft.)

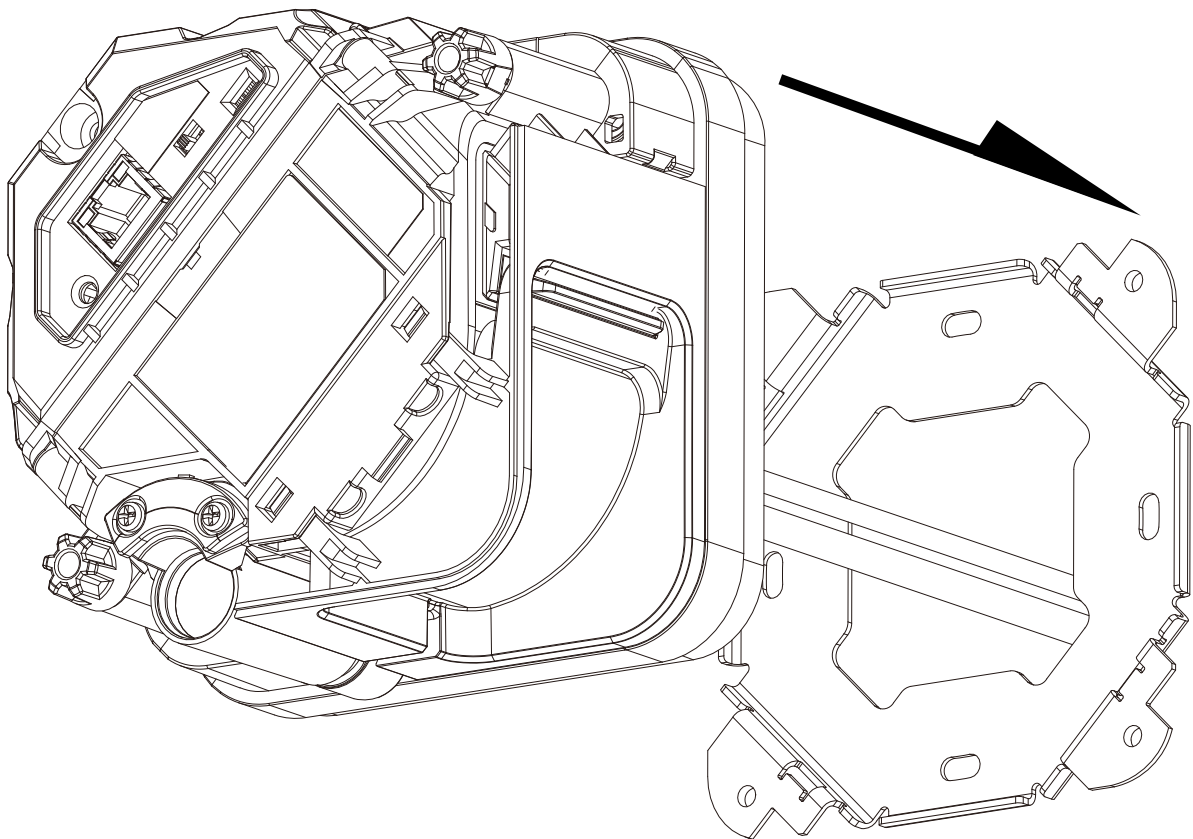
WIRE SIZE	Detector 12 VDC	Detector 24 VDC
AWG20(0.52mm²)	25 (82)	170 (557)
AWG18(0.83mm²)	40 (131)	270 (885)
AWG16(1.31mm²)	65 (213)	430 (1410)

m (ft.)

Note >>
Some PoE hubs have a limit for wattage.
Connect the detectors to PoE hubs without exceeding the limit referring to the PoE hub's instructions.

3

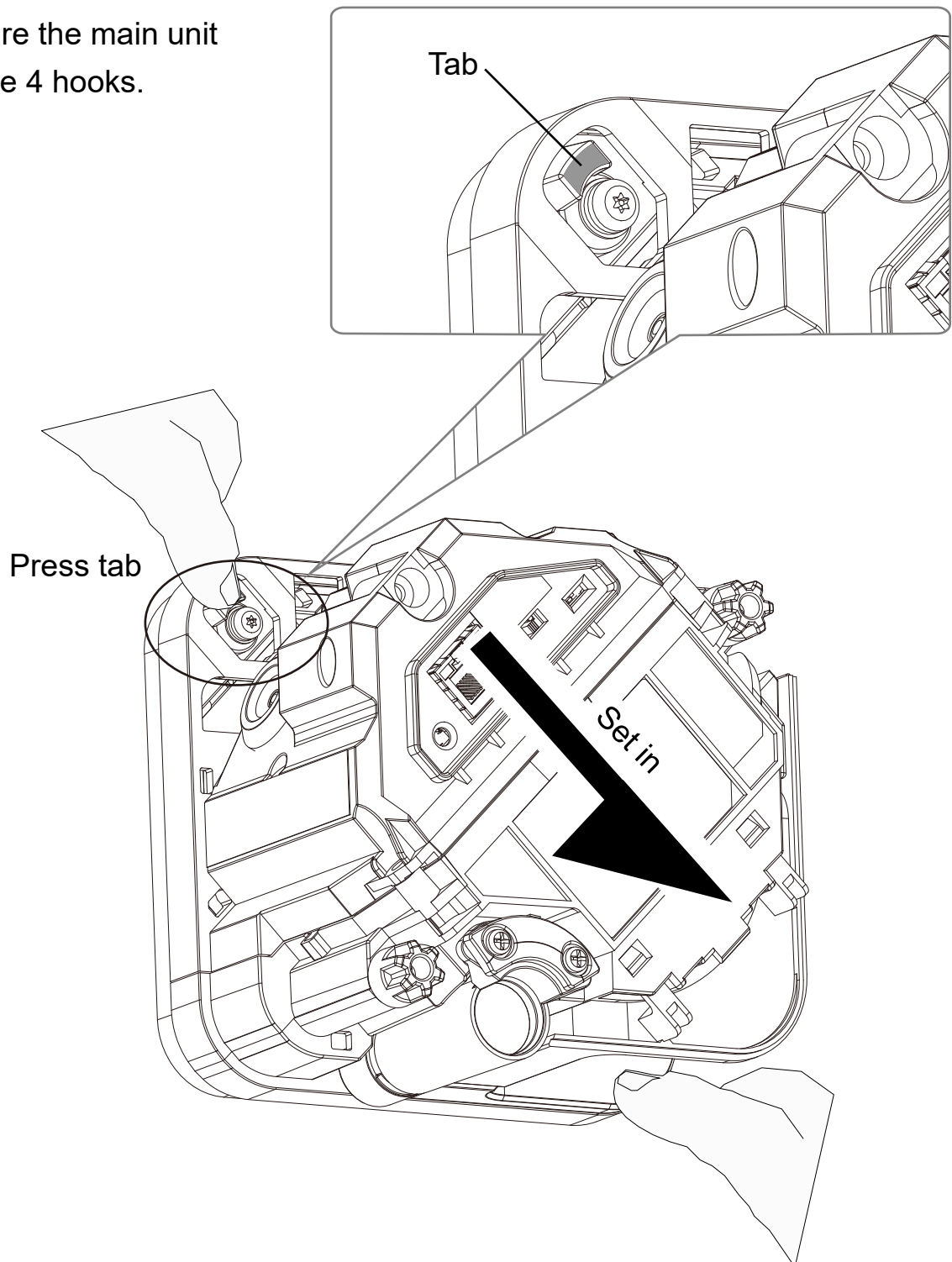
After wiring, place the main unit on the mounting plate.
Be careful not to pinch the wires.



⚠ Caution

Do not touch the laser window. Minor scratches can affect performance.
Leave the protective film on until installation is complete.

- 4 Secure the main unit on the 4 hooks.

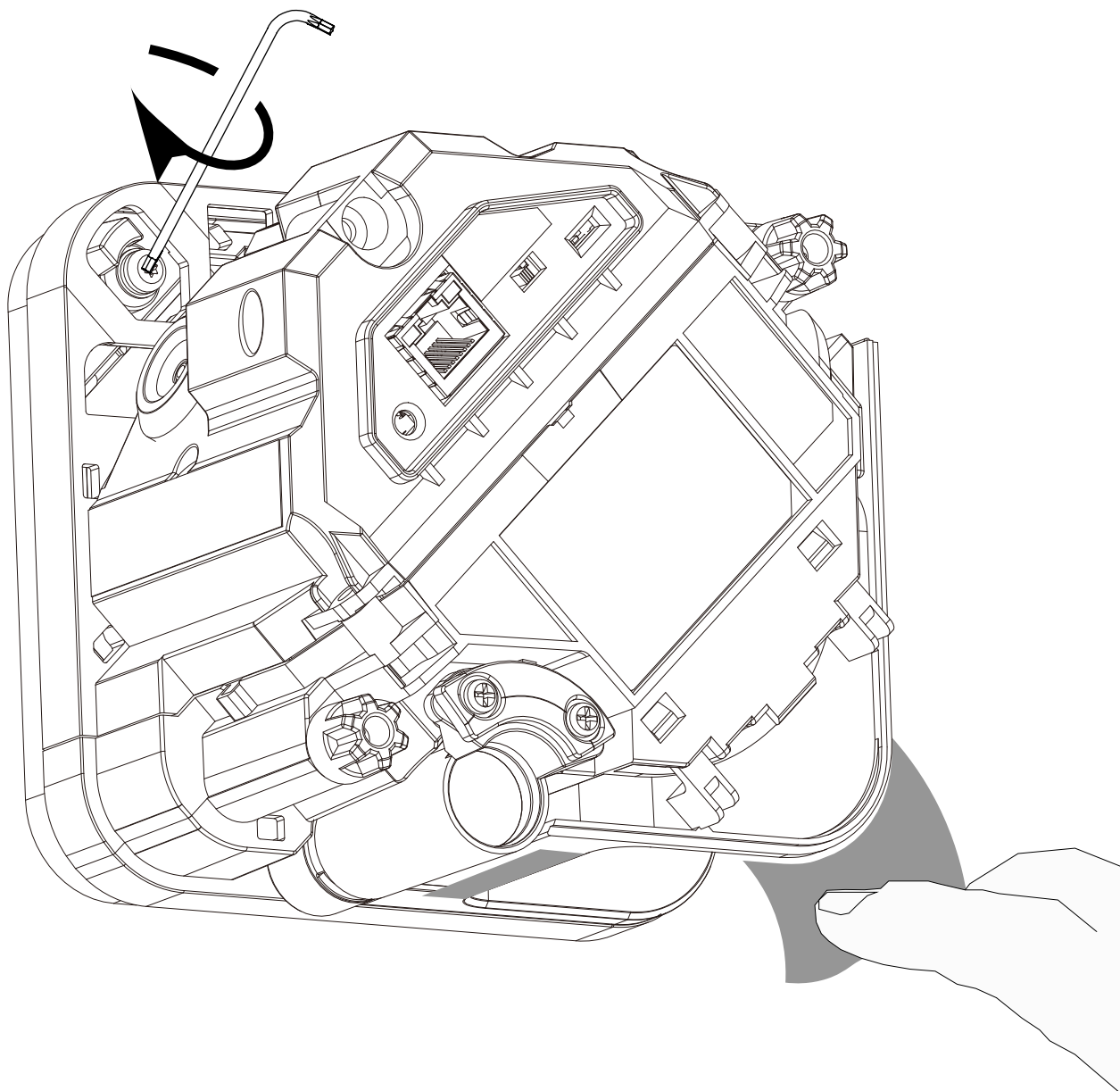


- ! Slide and secure while pressing down at the two points as shown in the above figure.

⚠ Caution

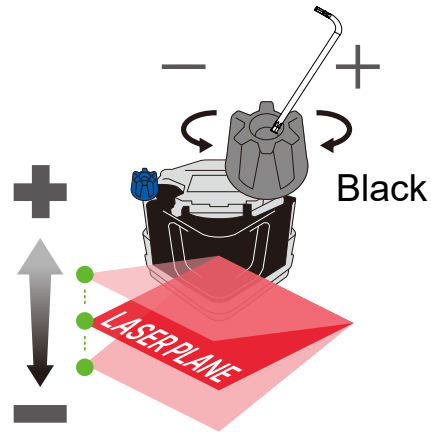
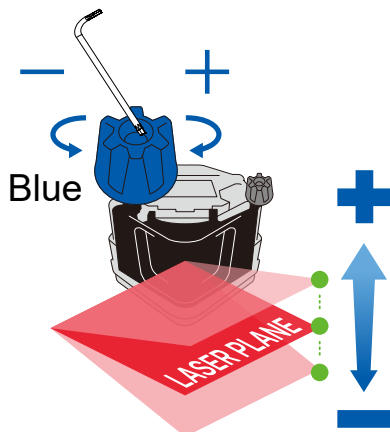
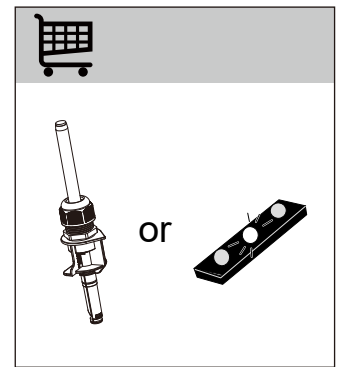
Do not touch the laser window. Minor scratches can affect performance. Leave the protective film on until installation is complete.

- 5** Lock the main unit and remove the protective film.



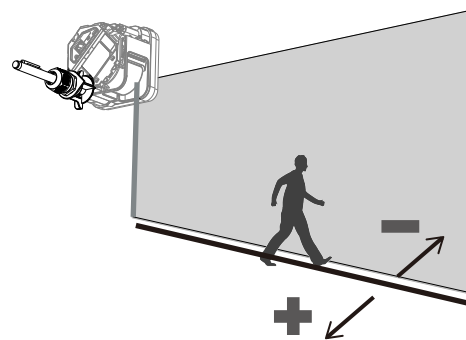
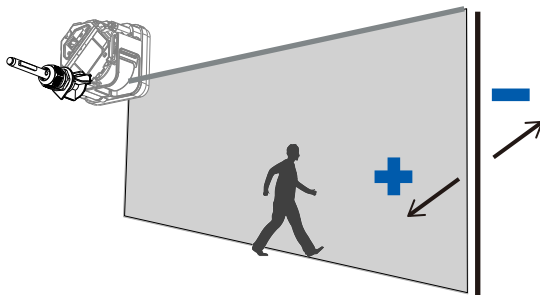
3 Area Adjustment

Laser area adjustment with optional area checker
RLS-LAT or LAC-1



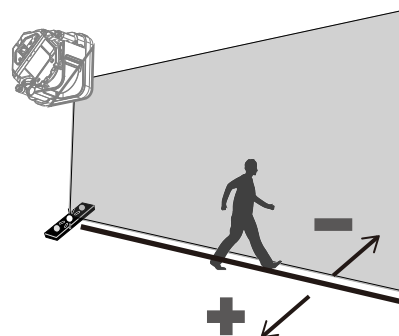
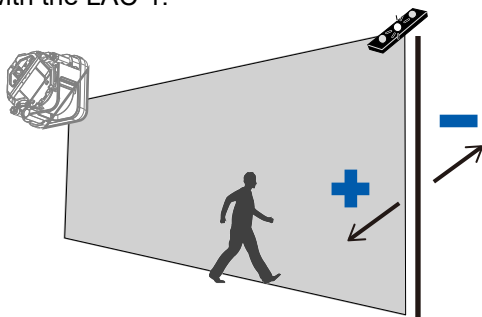
When using RLS-LAT *

The unit **DOES NOT** NEED to be powered in order to work with the RLS-LAT.



When using LAC-1 *

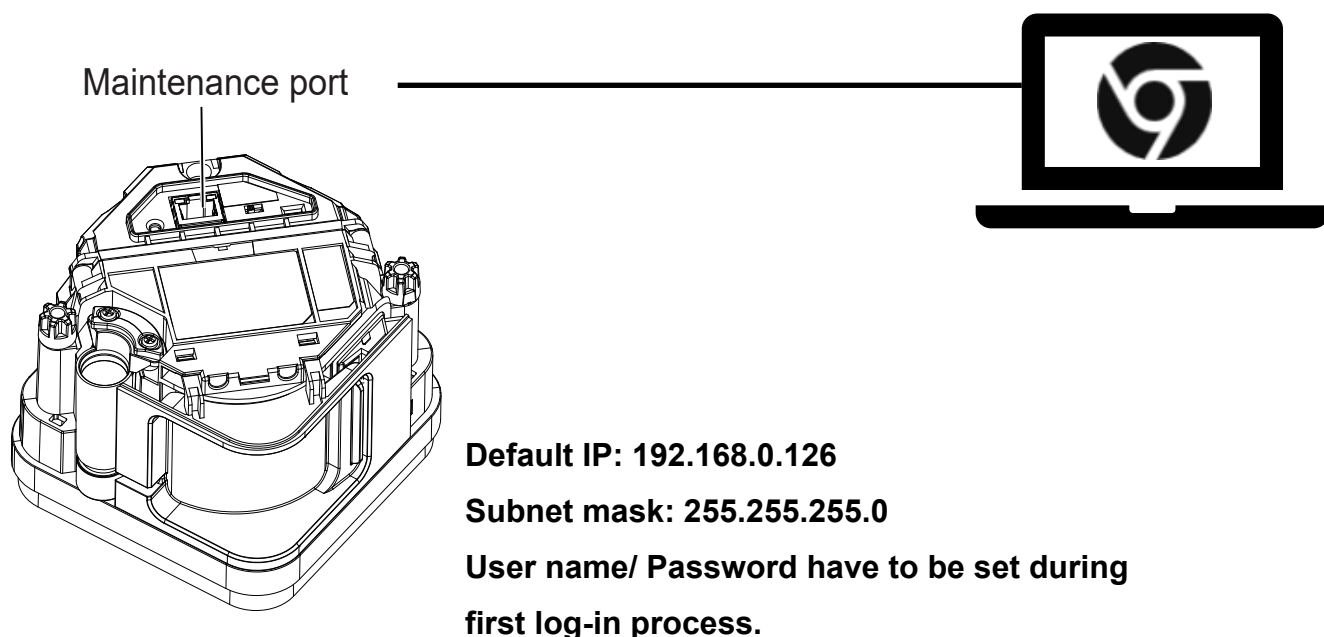
The unit **NEEDS** to be powered in order to work with the LAC-1.



* Be sure to use RLS-LAT or LAC-1 to perform area adjustment.

4 Setting confirmation

- 1 Power the device.
Wait until only the green LED remain lit.
- 2 Walk test
- 3 The maintenance port can be used for advance configuration, firmware updates or to review the alarm log.
The connection for configuration can only be made via this maintenance port.



Support web browser:

Chrome (running on Windows 10 or later, Mac, Android)



<https://navi.optex.net/manual/50551>

OPTEX Manual

• RLS-1010L

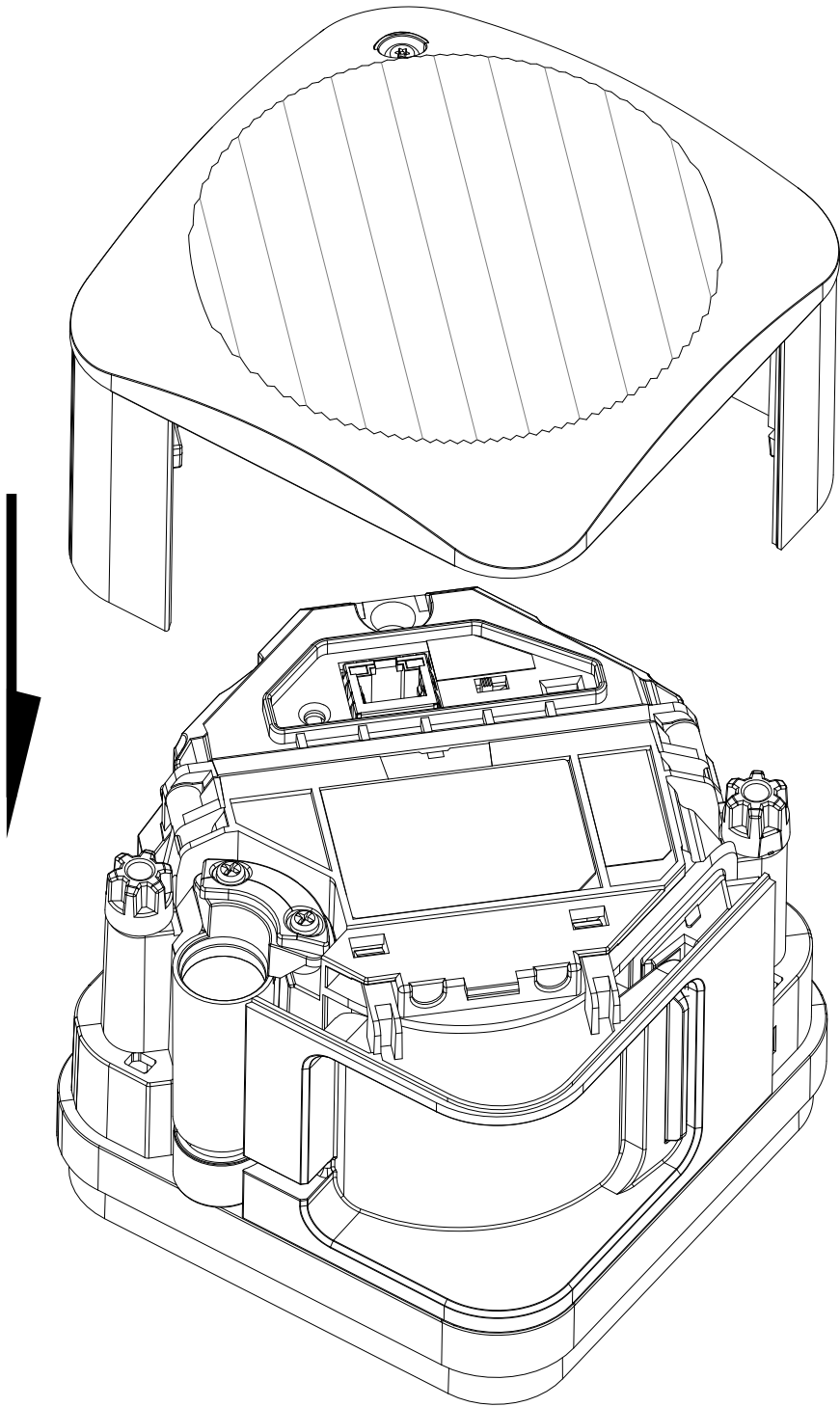
> Important Product Information PDF

> Setting Manual PDF

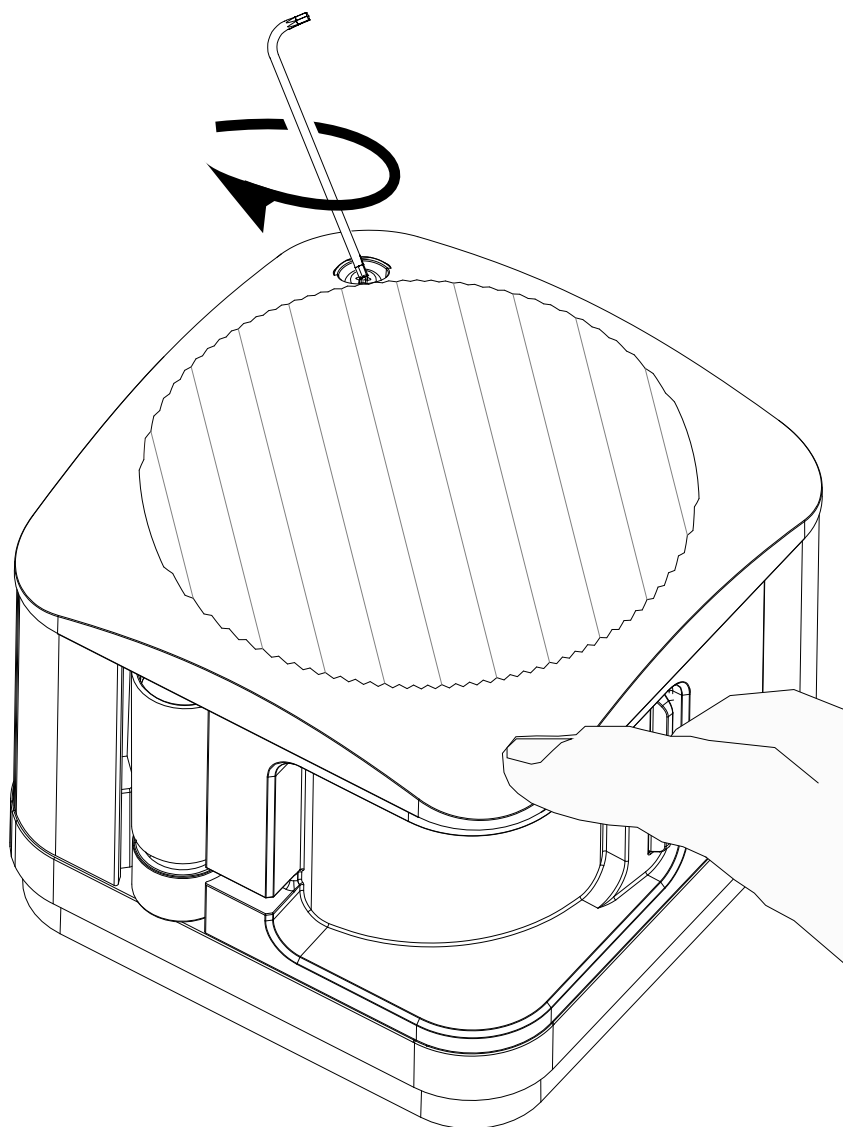
> Installation Instruction PDF

5 Completion

1

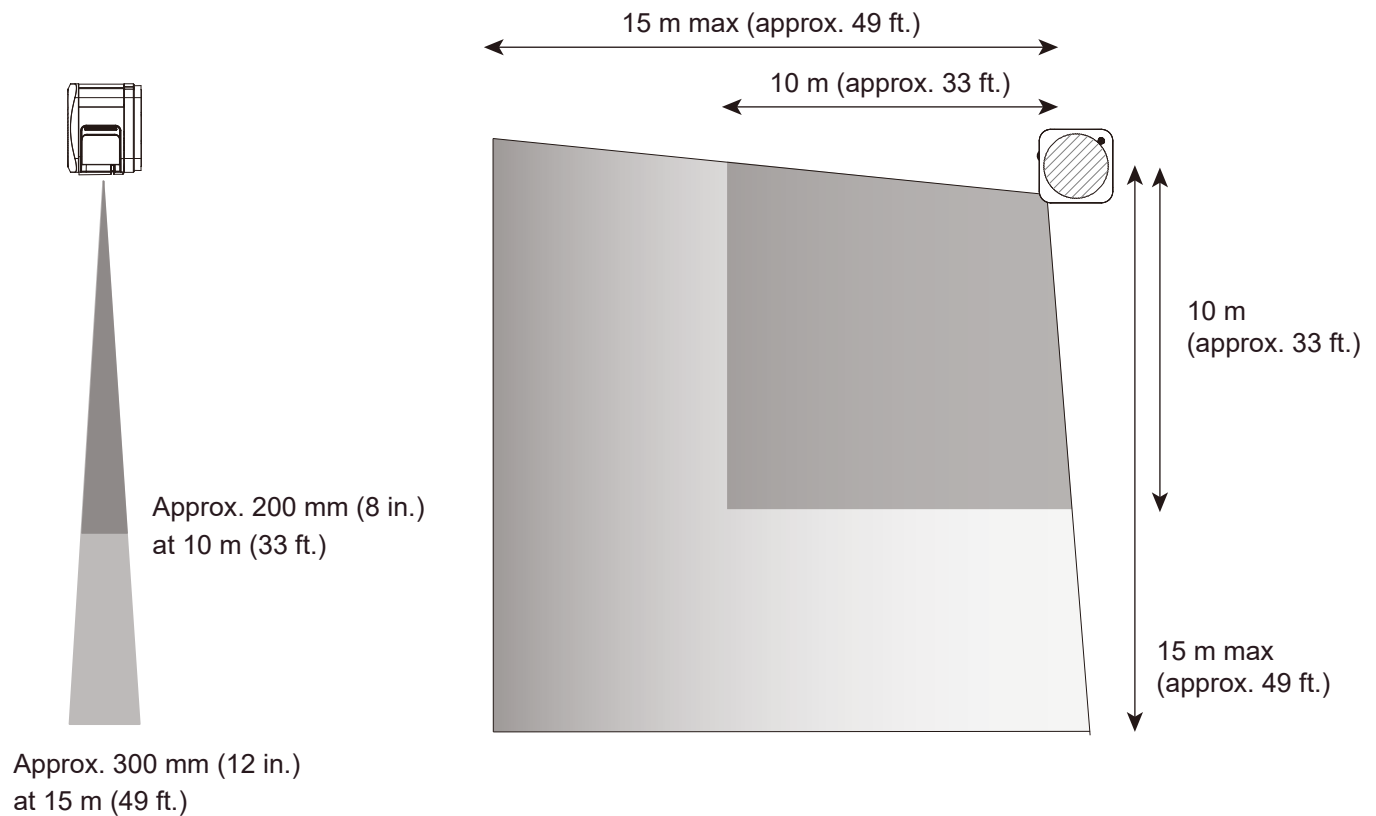


2



! Secure the COVER while pressing it down as shown in the above figure.

- Detection range



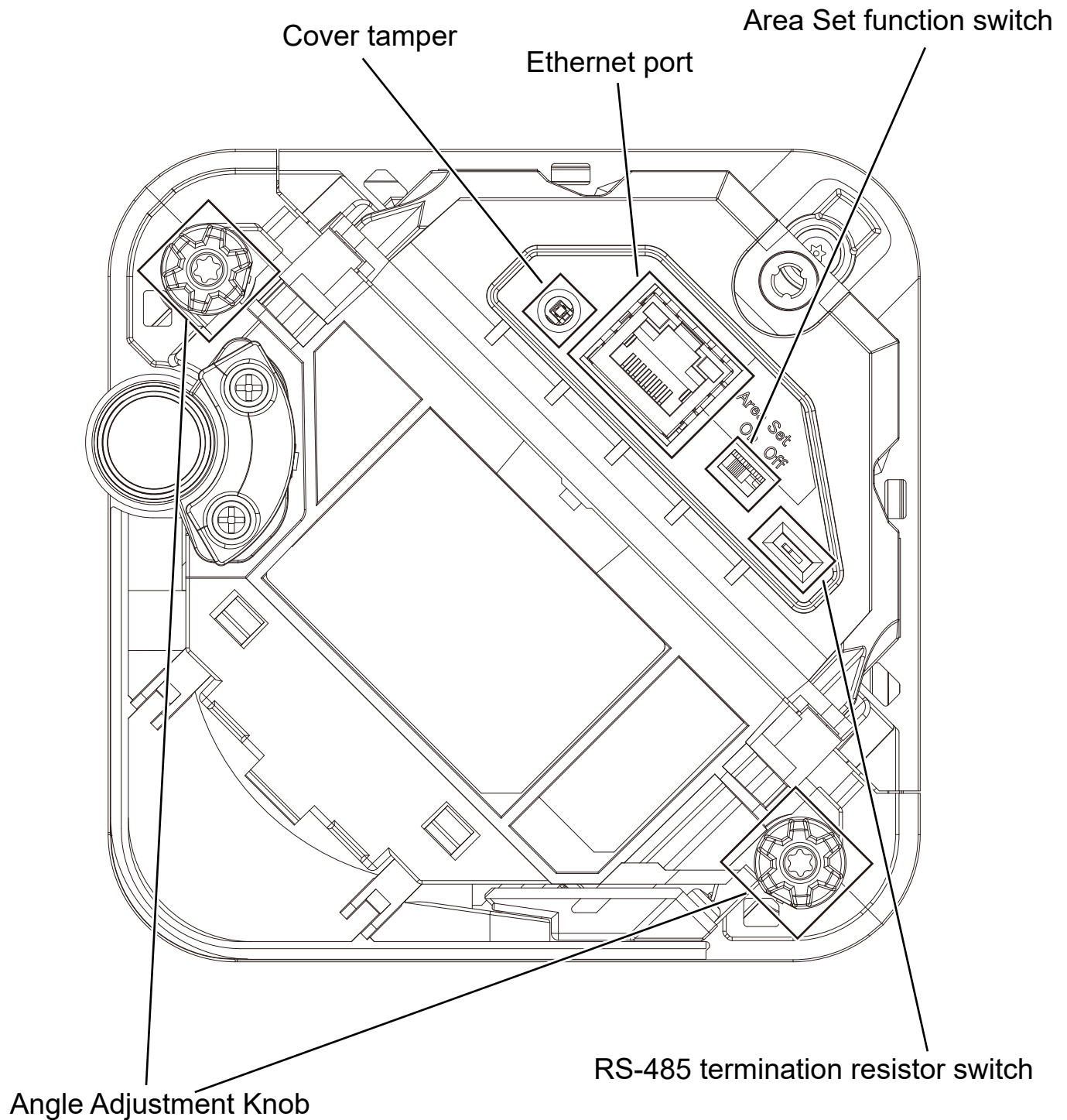
Default detection range

10 x 10 m (Approx. 33 x 33 ft.), 95 degree square

When using “Max. detection range”

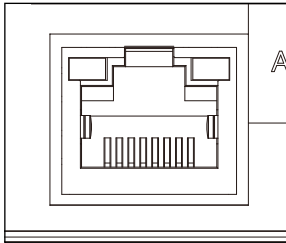
15 x 15 m (Approx. 49 x 49 ft.), 95 degree square

- Parts layout inside the cover and their functions



- Parts layout inside the cover and their functions

Ethernet port



If you need to change the detection settings or detection area, connect your PC to the Ethernet port and access the device using a web browser.

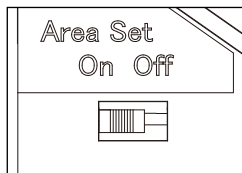
Default

IP: 192.168.0.126

Subnet mask: 255.255.255.0

User name/ Password have to be set during first log-in process.

Area Set function switch



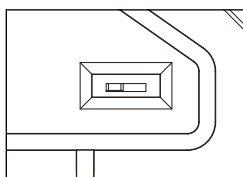
You can switch the Area Set function. (Default: ON)

ON: When the power is turned on, the area set will be automatically performed after the device starts up.

OFF: Disables the area set at startup.

To manually perform the area set, turn the slide switch OFF, wait for more than one second, and then turn it ON again. The yellow LED will blink during the area set execution.

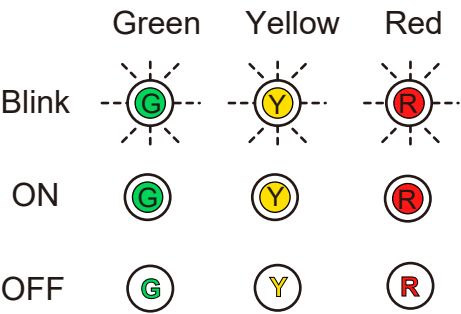
RS-485 termination resistor switch (future use)



You can switch the RS-485 termination resistor. (Default: Enabled)

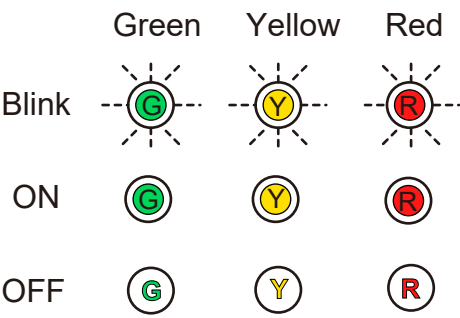
To disable the RS-485 termination resistor, slide the switch to the right side as shown in the diagram.

- LED indicator



Detector condition	LED		
Warm-up (approx. 70 s)			
Area setting			
Stand-by			
Alarm			
Reset completed (by RESET button)			
Anti-masking	*	→ Green blinks once. Yellow blinks once.	
		Repeat	
Anti-rotation		→ x 2 Green blinks once. Yellow blinks twice.	
		Repeat	
Soiling		→ x 3 Green blinks once. Yellow blinks 3 times.	
		Repeat	

* According to alarm status



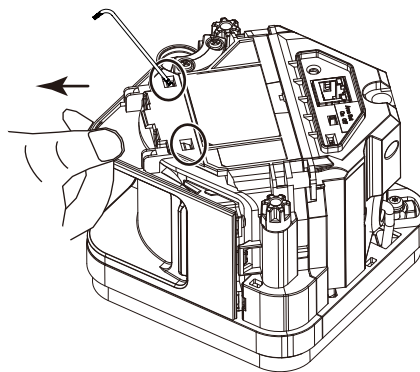
Trouble condition	LED
Motor error	→ Green blinks once. Red blinks once. Repeat
Hardware error	→ x 2 Green blinks once. Red blinks twice. Repeat
Over Heat	→ x 3 Green blinks once. Red blinks 3 times. Repeat
Not fixed the laser window properly or Others	→ x 4 Green blinks once. Red blinks 4 times. Repeat

- Factory reset (Hardware)

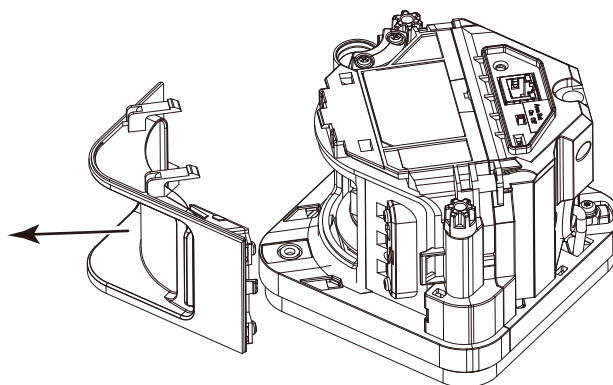
1 Turn off the power supply.

2 Remove the window.

(1) Keep pulling the top of the window, press to release the two clips using an L-shaped wrench or similar tool.



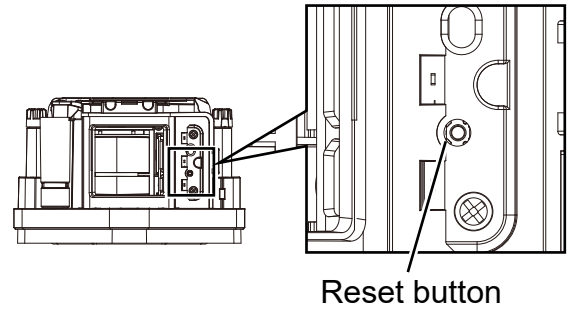
(2) Pull out and remove the window.



! Do not touch;
 1) the laser window except for the frame.
 2) inside the main unit e.g. mirror.

3 Power the device while holding the reset button.

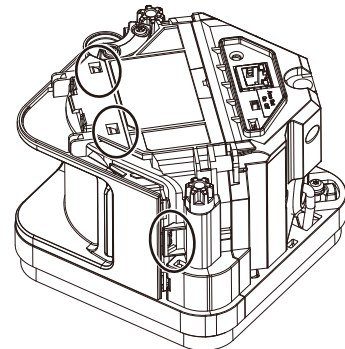
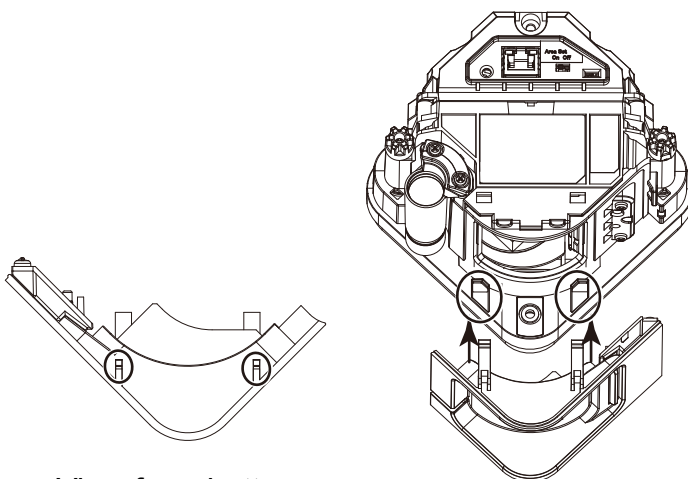
4 All LEDs turn on.
Red LED turns off after 50 seconds,
and green LED turns off after 2 seconds.
And then, release the reset button.
Yellow LED turns off after 3 seconds.



5 Turn off the power supply.

6 Attach the window.
(1) Engage the two holes.

(2) Check the engagement of the three clips.



! Do not touch the laser window except for the frame.

7 Then, power on the device.

■ EU contact information



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



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